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United States Department of Agriculture
Soil Conservation Service
Engineering Division

Technical Release No. 16
Hydrology
August 1960

RAINFALL-RUNOFF TABLES FOR SELECTED RUNOFF CURVE NUMBERS

The "Hydrology Guide" (NEH-4, Supplement A) presents Figure 3.10-1 for estimating direct runoff from rainfall for selected runoff curve numbers. Many engineers find it more convenient to work with the attached tables prepared under the direction of F. P. Erichsen, Hydrologist, E&WP Unit, Milwaukee, Wisconsin. The original tables, which have been so popular, have been enlarged to show runoff amounts to rainfall quantities up to 40 inches for runoff curve numbers 55 to 98, inclusive.

Additional copies of this release may be obtained from the Engineering Division, Washington 25, D. C.

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MAY 4 1973
PROCUREMENT SECTION
CURRENT SERIAL RECORDS

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | | | | | 0.00 | 0.00 | 0.01 |
| 2 | 0.02 | 0.02 | 0.04 | 0.05 | 0.07 | 0.08 | 0.10 | 0.12 | 0.15 | 0.17 |
| 3 | 0.19 | 0.22 | 0.25 | 0.28 | 0.31 | 0.35 | 0.38 | 0.42 | 0.45 | 0.49 |
| 4 | 0.53 | 0.57 | 0.61 | 0.65 | 0.70 | 0.74 | 0.79 | 0.83 | 0.88 | 0.93 |
| 5 | 0.98 | 1.03 | 1.08 | 1.13 | 1.19 | 1.24 | 1.29 | 1.35 | 1.40 | 1.46 |
| 6 | 1.52 | 1.58 | 1.63 | 1.69 | 1.75 | 1.81 | 1.87 | 1.94 | 2.00 | 2.06 |
| 7 | 2.12 | 2.19 | 2.25 | 2.32 | 2.38 | 2.45 | 2.51 | 2.58 | 2.65 | 2.72 |
| 8 | 2.78 | 2.85 | 2.92 | 2.99 | 3.06 | 3.13 | 3.20 | 3.27 | 3.34 | 3.42 |
| 9 | 3.49 | 3.56 | 3.63 | 3.71 | 3.78 | 3.85 | 3.93 | 4.00 | 4.08 | 4.15 |
| 10 | 4.23 | 4.30 | 4.38 | 4.46 | 4.53 | 4.61 | 4.69 | 4.76 | 4.84 | 4.92 |
| 11 | 5.00 | 5.08 | 5.15 | 5.23 | 5.31 | 5.39 | 5.47 | 5.55 | 5.63 | 5.71 |
| 12 | 5.79 | 5.87 | 5.95 | 6.03 | 6.12 | 6.20 | 6.28 | 6.36 | 6.44 | 6.53 |
| 13 | 6.61 | 6.69 | 6.77 | 6.86 | 6.94 | 7.02 | 7.11 | 7.19 | 7.27 | 7.36 |
| 14 | 7.44 | 7.53 | 7.61 | 7.69 | 7.78 | 7.86 | 7.95 | 8.03 | 8.12 | 8.20 |
| 15 | 8.29 | 8.38 | 8.46 | 8.55 | 8.63 | 8.72 | 8.81 | 8.89 | 8.98 | 9.07 |
| 16 | 9.15 | 9.24 | 9.33 | 9.41 | 9.50 | 9.59 | 9.68 | 9.76 | 9.85 | 9.94 |
| 17 | 10.03 | 10.11 | 10.20 | 10.29 | 10.38 | 10.47 | 10.56 | 10.64 | 10.73 | 10.82 |
| 18 | 10.91 | 11.00 | 11.09 | 11.18 | 11.27 | 11.36 | 11.45 | 11.53 | 11.62 | 11.71 |
| 19 | 11.80 | 11.89 | 11.98 | 12.07 | 12.16 | 12.25 | 12.34 | 12.43 | 12.52 | 12.61 |
| 20 | 12.70 | 12.80 | 12.89 | 12.98 | 13.07 | 13.16 | 13.25 | 13.34 | 13.43 | 13.52 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 13.61 | 13.70 | 13.80 | 13.89 | 13.98 | 14.07 | 14.16 | 14.25 | 14.34 | 14.44 |
| 22 | 14.53 | 14.62 | 14.71 | 14.80 | 14.90 | 14.99 | 15.08 | 15.17 | 15.26 | 15.36 |
| 23 | 15.45 | 15.54 | 15.63 | 15.73 | 15.82 | 15.91 | 16.00 | 16.10 | 16.19 | 16.28 |
| 24 | 16.37 | 16.47 | 16.56 | 16.65 | 16.75 | 16.84 | 16.93 | 17.03 | 17.12 | 17.21 |
| 25 | 17.31 | 17.40 | 17.49 | 17.59 | 17.68 | 17.77 | 17.87 | 17.96 | 18.05 | 18.15 |
| 26 | 18.24 | 18.33 | 18.43 | 18.52 | 18.62 | 18.71 | 18.80 | 18.90 | 18.99 | 19.08 |
| 27 | 19.18 | 19.27 | 19.37 | 19.46 | 19.56 | 19.65 | 19.74 | 19.84 | 19.93 | 20.03 |
| 28 | 20.12 | 20.22 | 20.31 | 20.40 | 20.50 | 20.59 | 20.69 | 20.78 | 20.88 | 20.97 |
| 29 | 21.07 | 21.16 | 21.26 | 21.35 | 21.45 | 21.54 | 21.64 | 21.73 | 21.83 | 21.92 |
| 30 | 22.01 | 22.11 | 22.21 | 22.30 | 22.40 | 22.49 | 22.59 | 22.68 | 22.78 | 22.87 |
| 31 | 22.97 | 23.06 | 23.16 | 23.25 | 23.35 | 23.44 | 23.54 | 23.63 | 23.73 | 23.82 |
| 32 | 23.92 | 24.02 | 24.11 | 24.21 | 24.30 | 24.40 | 24.49 | 24.59 | 24.68 | 24.78 |
| 33 | 24.88 | 24.97 | 25.07 | 25.16 | 25.26 | 25.35 | 25.45 | 25.55 | 25.64 | 25.74 |
| 34 | 25.83 | 25.93 | 26.03 | 26.12 | 26.22 | 26.31 | 26.41 | 26.51 | 26.60 | 26.70 |
| 35 | 26.79 | 26.89 | 26.99 | 27.08 | 27.18 | 27.28 | 27.37 | 27.47 | 27.56 | 27.66 |
| 36 | 27.76 | 27.85 | 27.95 | 28.05 | 28.14 | 28.24 | 28.33 | 28.43 | 28.53 | 28.62 |
| 37 | 28.72 | 28.82 | 28.91 | 29.01 | 29.11 | 29.20 | 29.30 | 29.40 | 29.49 | 29.59 |
| 38 | 29.69 | 29.78 | 29.88 | 29.98 | 30.07 | 30.17 | 30.27 | 30.36 | 30.46 | 30.56 |
| 39 | 30.65 | 30.75 | 30.85 | 30.94 | 31.04 | 31.14 | 31.23 | 31.33 | 31.43 | 31.52 |
| 40 | 31.62 | 31.72 | 31.82 | 31.91 | 32.01 | 32.11 | 32.20 | 32.30 | 32.40 | 32.49 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | | | 0.00 | 0.00 | 0.01 | 0.01 | |
| 2 | 0.02 | 0.03 | 0.05 | 0.06 | 0.08 | 0.10 | 0.12 | 0.14 | 0.17 | 0.19 |
| 3 | 0.22 | 0.25 | 0.28 | 0.31 | 0.34 | 0.38 | 0.42 | 0.45 | 0.49 | 0.53 |
| 4 | 0.57 | 0.62 | 0.66 | 0.70 | 0.75 | 0.79 | 0.84 | 0.89 | 0.94 | 0.99 |
| 5 | 1.04 | 1.09 | 1.15 | 1.20 | 1.25 | 1.31 | 1.36 | 1.42 | 1.48 | 1.54 |
| 6 | 1.60 | 1.66 | 1.72 | 1.78 | 1.84 | 1.90 | 1.96 | 2.02 | 2.09 | 2.15 |
| 7 | 2.22 | 2.28 | 2.35 | 2.41 | 2.48 | 2.55 | 2.62 | 2.68 | 2.75 | 2.82 |
| 8 | 2.89 | 2.96 | 3.03 | 3.10 | 3.17 | 3.25 | 3.32 | 3.39 | 3.46 | 3.54 |
| 9 | 3.61 | 3.68 | 3.76 | 3.83 | 3.91 | 3.98 | 4.06 | 4.13 | 4.21 | 4.28 |
| 10 | 4.36 | 4.44 | 4.51 | 4.59 | 4.67 | 4.75 | 4.83 | 4.90 | 4.98 | 5.06 |
| 11 | 5.14 | 5.22 | 5.30 | 5.38 | 5.46 | 5.54 | 5.62 | 5.70 | 5.78 | 5.86 |
| 12 | 5.95 | 6.03 | 6.11 | 6.19 | 6.27 | 6.36 | 6.44 | 6.52 | 6.60 | 6.69 |
| 13 | 6.77 | 6.85 | 6.94 | 7.02 | 7.11 | 7.19 | 7.27 | 7.36 | 7.44 | 7.53 |
| 14 | 7.61 | 7.70 | 7.78 | 7.87 | 7.95 | 8.04 | 8.13 | 8.21 | 8.30 | 8.38 |
| 15 | 8.47 | 8.56 | 8.64 | 8.73 | 8.82 | 8.90 | 8.99 | 9.08 | 9.16 | 9.25 |
| 16 | 9.34 | 9.43 | 9.52 | 9.60 | 9.69 | 9.78 | 9.87 | 9.96 | 10.04 | 10.13 |
| 17 | 10.22 | 10.31 | 10.40 | 10.49 | 10.58 | 10.67 | 10.75 | 10.84 | 10.93 | 11.02 |
| 18 | 11.11 | 11.20 | 11.29 | 11.38 | 11.47 | 11.56 | 11.65 | 11.74 | 11.83 | 11.92 |
| 19 | 12.01 | 12.10 | 12.19 | 12.28 | 12.37 | 12.46 | 12.55 | 12.65 | 12.74 | 12.83 |
| 20 | 12.92 | 13.01 | 13.10 | 13.19 | 13.28 | 13.37 | 13.47 | 13.56 | 13.65 | 13.74 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 13.83 | 13.92 | 14.02 | 14.11 | 14.20 | 14.29 | 14.38 | 14.48 | 14.57 | 14.66 |
| 22 | 14.75 | 14.84 | 14.94 | 15.03 | 15.12 | 15.21 | 15.31 | 15.40 | 15.49 | 15.58 |
| 23 | 15.68 | 15.77 | 15.86 | 15.96 | 16.05 | 16.14 | 16.24 | 16.33 | 16.42 | 16.51 |
| 24 | 16.61 | 16.70 | 16.79 | 16.89 | 16.98 | 17.07 | 17.17 | 17.26 | 17.36 | 17.45 |
| 25 | 17.54 | 17.64 | 17.73 | 17.82 | 17.92 | 18.01 | 18.11 | 18.20 | 18.29 | 18.39 |
| 26 | 18.48 | 18.58 | 18.67 | 18.76 | 18.86 | 18.95 | 19.05 | 19.14 | 19.24 | 19.33 |
| 27 | 19.42 | 19.52 | 19.61 | 19.71 | 19.80 | 19.90 | 19.99 | 20.09 | 20.18 | 20.28 |
| 28 | 20.37 | 20.46 | 20.56 | 20.65 | 20.75 | 20.84 | 20.94 | 21.03 | 21.13 | 21.22 |
| 29 | 21.32 | 21.41 | 21.51 | 21.60 | 21.70 | 21.79 | 21.89 | 21.98 | 22.08 | 22.18 |
| 30 | 22.27 | 22.37 | 22.46 | 22.56 | 22.65 | 22.75 | 22.84 | 22.94 | 23.03 | 23.13 |
| 31 | 23.22 | 23.32 | 23.42 | 23.51 | 23.61 | 23.70 | 23.80 | 23.89 | 23.99 | 24.09 |
| 32 | 24.18 | 24.28 | 24.37 | 24.47 | 24.56 | 24.66 | 24.76 | 24.85 | 24.95 | 25.04 |
| 33 | 25.14 | 25.24 | 25.33 | 25.43 | 25.52 | 25.62 | 25.72 | 25.81 | 25.91 | 26.01 |
| 34 | 26.10 | 26.20 | 26.29 | 26.39 | 26.49 | 26.58 | 26.68 | 26.78 | 26.87 | 26.97 |
| 35 | 27.06 | 27.16 | 27.26 | 27.35 | 27.45 | 27.55 | 27.64 | 27.74 | 27.84 | 27.93 |
| 36 | 28.03 | 28.13 | 28.22 | 28.32 | 28.42 | 28.51 | 28.61 | 28.71 | 28.80 | 28.90 |
| 37 | 29.00 | 29.09 | 29.19 | 29.29 | 29.38 | 29.48 | 29.58 | 29.67 | 29.77 | 29.87 |
| 38 | 29.96 | 30.06 | 30.16 | 30.25 | 30.35 | 30.45 | 30.54 | 30.64 | 30.74 | 30.84 |
| 39 | 30.93 | 31.03 | 31.13 | 31.22 | 31.32 | 31.42 | 31.51 | 31.61 | 31.71 | 31.81 |
| 40 | 31.90 | 32.00 | 32.10 | 32.19 | 32.29 | 32.39 | 32.49 | 32.58 | 32.68 | 32.78 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | | | | 0.00 | 0.00 | 0.01 | 0.02 |
| 2 | 0.03 | 0.04 | 0.06 | 0.08 | 0.09 | 0.12 | 0.14 | 0.16 | 0.19 | 0.22 |
| 3 | 0.25 | 0.28 | 0.31 | 0.34 | 0.38 | 0.42 | 0.45 | 0.49 | 0.53 | 0.58 |
| 4 | 0.62 | 0.66 | 0.71 | 0.75 | 0.80 | 0.85 | 0.90 | 0.95 | 1.00 | 1.05 |
| 5 | 1.11 | 1.16 | 1.21 | 1.27 | 1.33 | 1.38 | 1.44 | 1.50 | 1.56 | 1.62 |
| 6 | 1.68 | 1.74 | 1.80 | 1.86 | 1.93 | 1.99 | 2.05 | 2.12 | 2.18 | 2.25 |
| 7 | 2.31 | 2.38 | 2.45 | 2.52 | 2.58 | 2.65 | 2.72 | 2.79 | 2.86 | 2.93 |
| 8 | 3.00 | 3.07 | 3.15 | 3.22 | 3.29 | 3.36 | 3.44 | 3.51 | 3.59 | 3.66 |
| 9 | 3.73 | 3.81 | 3.88 | 3.96 | 4.04 | 4.11 | 4.19 | 4.27 | 4.34 | 4.42 |
| 10 | 4.50 | 4.58 | 4.65 | 4.73 | 4.81 | 4.89 | 4.97 | 5.05 | 5.13 | 5.21 |
| 11 | 5.29 | 5.37 | 5.45 | 5.53 | 5.61 | 5.69 | 5.78 | 5.86 | 5.94 | 6.02 |
| 12 | 6.10 | 6.19 | 6.27 | 6.35 | 6.44 | 6.52 | 6.60 | 6.69 | 6.77 | 6.85 |
| 13 | 6.94 | 7.02 | 7.11 | 7.19 | 7.28 | 7.36 | 7.45 | 7.53 | 7.62 | 7.70 |
| 14 | 7.79 | 7.88 | 7.96 | 8.05 | 8.13 | 8.22 | 8.31 | 8.39 | 8.48 | 8.57 |
| 15 | 8.66 | 8.74 | 8.83 | 8.92 | 9.00 | 9.09 | 9.18 | 9.27 | 9.36 | 9.44 |
| 16 | 9.53 | 9.62 | 9.71 | 9.80 | 9.89 | 9.98 | 10.06 | 10.15 | 10.24 | 10.33 |
| 17 | 10.42 | 10.51 | 10.60 | 10.69 | 10.78 | 10.87 | 10.96 | 11.05 | 11.14 | 11.23 |
| 18 | 11.32 | 11.41 | 11.50 | 11.59 | 11.68 | 11.77 | 11.86 | 11.95 | 12.04 | 12.13 |
| 19 | 12.22 | 12.31 | 12.41 | 12.50 | 12.59 | 12.68 | 12.77 | 12.86 | 12.95 | 13.04 |
| 20 | 13.14 | 13.23 | 13.32 | 13.41 | 13.50 | 13.59 | 13.69 | 13.78 | 13.87 | 13.96 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 14.06 | 14.15 | 14.24 | 14.33 | 14.42 | 14.52 | 14.61 | 14.70 | 14.79 | 14.89 |
| 22 | 14.98 | 15.07 | 15.17 | 15.26 | 15.35 | 15.44 | 15.54 | 15.63 | 15.72 | 15.82 |
| 23 | 15.91 | 16.00 | 16.10 | 16.19 | 16.28 | 16.38 | 16.47 | 16.56 | 16.66 | 16.75 |
| 24 | 16.85 | 16.94 | 17.03 | 17.13 | 17.22 | 17.31 | 17.41 | 17.50 | 17.60 | 17.69 |
| 25 | 17.78 | 17.88 | 17.97 | 18.07 | 18.16 | 18.25 | 18.35 | 18.44 | 18.54 | 18.63 |
| 26 | 18.73 | 18.82 | 18.92 | 19.01 | 19.10 | 19.20 | 19.29 | 19.39 | 19.48 | 19.58 |
| 27 | 19.67 | 19.77 | 19.86 | 19.96 | 20.05 | 20.15 | 20.24 | 20.34 | 20.43 | 20.53 |
| 28 | 20.62 | 20.72 | 20.81 | 20.91 | 21.00 | 21.10 | 21.19 | 21.29 | 21.38 | 21.48 |
| 29 | 21.57 | 21.67 | 21.77 | 21.86 | 21.96 | 22.05 | 22.15 | 22.24 | 22.34 | 22.43 |
| 30 | 22.53 | 22.63 | 22.72 | 22.82 | 22.91 | 23.01 | 23.10 | 23.20 | 23.30 | 23.39 |
| 31 | 23.49 | 23.58 | 23.68 | 23.77 | 23.87 | 23.97 | 24.06 | 24.16 | 24.25 | 24.35 |
| 32 | 24.45 | 24.54 | 24.64 | 24.74 | 24.83 | 24.93 | 25.02 | 25.12 | 25.22 | 25.31 |
| 33 | 25.41 | 25.50 | 25.60 | 25.70 | 25.79 | 25.89 | 25.99 | 26.08 | 26.18 | 26.28 |
| 34 | 26.37 | 26.47 | 26.57 | 26.66 | 26.76 | 26.85 | 26.95 | 27.05 | 27.14 | 27.24 |
| 35 | 27.34 | 27.43 | 27.53 | 27.63 | 27.72 | 27.82 | 27.92 | 28.01 | 28.11 | 28.21 |
| 36 | 28.30 | 28.40 | 28.50 | 28.59 | 28.69 | 28.79 | 28.89 | 28.98 | 29.08 | 29.18 |
| 37 | 29.27 | 29.37 | 29.47 | 29.56 | 29.66 | 29.76 | 29.85 | 29.95 | 30.05 | 30.15 |
| 38 | 30.24 | 30.34 | 30.44 | 30.53 | 30.63 | 30.73 | 30.83 | 30.92 | 31.02 | 31.12 |
| 39 | 31.21 | 31.31 | 31.41 | 31.51 | 31.60 | 31.70 | 31.80 | 31.90 | 31.99 | 32.09 |
| 40 | 32.19 | 32.28 | 32.38 | 32.48 | 32.58 | 32.67 | 32.77 | 32.87 | 32.97 | 33.06 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | | | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 |
| 2 | 0.04 | 0.05 | 0.07 | 0.09 | 0.11 | 0.13 | 0.16 | 0.18 | 0.21 | 0.24 |
| 3 | 0.27 | 0.31 | 0.34 | 0.38 | 0.41 | 0.45 | 0.49 | 0.53 | 0.58 | 0.62 |
| 4 | 0.67 | 0.71 | 0.76 | 0.81 | 0.86 | 0.91 | 0.96 | 1.01 | 1.06 | 1.11 |
| 5 | 1.17 | 1.22 | 1.28 | 1.34 | 1.40 | 1.45 | 1.51 | 1.57 | 1.63 | 1.70 |
| 6 | 1.76 | 1.82 | 1.88 | 1.95 | 2.01 | 2.08 | 2.14 | 2.21 | 2.27 | 2.34 |
| 7 | 2.41 | 2.48 | 2.55 | 2.62 | 2.69 | 2.76 | 2.83 | 2.90 | 2.97 | 3.04 |
| 8 | 3.11 | 3.19 | 3.26 | 3.33 | 3.41 | 3.48 | 3.55 | 3.63 | 3.70 | 3.78 |
| 9 | 3.86 | 3.93 | 4.01 | 4.09 | 4.16 | 4.24 | 4.32 | 4.40 | 4.47 | 4.55 |
| 10 | 4.63 | 4.71 | 4.79 | 4.87 | 4.95 | 5.03 | 5.11 | 5.19 | 5.27 | 5.35 |
| 11 | 5.43 | 5.52 | 5.60 | 5.68 | 5.76 | 5.84 | 5.93 | 6.01 | 6.09 | 6.17 |
| 12 | 6.26 | 6.34 | 6.43 | 6.51 | 6.59 | 6.68 | 6.76 | 6.85 | 6.93 | 7.02 |
| 13 | 7.10 | 7.19 | 7.27 | 7.36 | 7.44 | 7.53 | 7.62 | 7.70 | 7.79 | 7.87 |
| 14 | 7.96 | 8.05 | 8.13 | 8.22 | 8.31 | 8.40 | 8.48 | 8.57 | 8.66 | 8.75 |
| 15 | 8.83 | 8.92 | 9.01 | 9.10 | 9.19 | 9.27 | 9.36 | 9.45 | 9.54 | 9.63 |
| 16 | 9.72 | 9.81 | 9.90 | 9.98 | 10.07 | 10.16 | 10.25 | 10.34 | 10.43 | 10.52 |
| 17 | 10.61 | 10.70 | 10.79 | 10.88 | 10.97 | 11.06 | 11.15 | 11.24 | 11.33 | 11.42 |
| 18 | 11.52 | 11.61 | 11.70 | 11.79 | 11.88 | 11.97 | 12.06 | 12.15 | 12.24 | 12.33 |
| 19 | 12.43 | 12.52 | 12.61 | 12.70 | 12.79 | 12.88 | 12.98 | 13.07 | 13.16 | 13.25 |
| 20 | 13.34 | 13.44 | 13.53 | 13.62 | 13.71 | 13.81 | 13.90 | 13.99 | 14.08 | 14.18 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 14.27 | 14.36 | 14.45 | 14.55 | 14.64 | 14.73 | 14.83 | 14.92 | 15.01 | 15.10 |
| 22 | 15.20 | 15.29 | 15.38 | 15.48 | 15.57 | 15.66 | 15.76 | 15.85 | 15.95 | 16.04 |
| 23 | 16.13 | 16.23 | 16.32 | 16.41 | 16.51 | 16.60 | 16.70 | 16.79 | 16.88 | 16.98 |
| 24 | 17.07 | 17.17 | 17.26 | 17.35 | 17.45 | 17.54 | 17.64 | 17.73 | 17.83 | 17.92 |
| 25 | 18.01 | 18.11 | 18.20 | 18.30 | 18.39 | 18.49 | 18.58 | 18.68 | 18.77 | 18.87 |
| 26 | 18.96 | 19.06 | 19.15 | 19.25 | 19.34 | 19.44 | 19.53 | 19.63 | 19.72 | 19.82 |
| 27 | 19.91 | 20.01 | 20.10 | 20.20 | 20.29 | 20.39 | 20.48 | 20.58 | 20.67 | 20.77 |
| 28 | 20.86 | 20.96 | 21.05 | 21.15 | 21.25 | 21.34 | 21.44 | 21.53 | 21.63 | 21.72 |
| 29 | 21.82 | 21.91 | 22.01 | 22.11 | 22.20 | 22.30 | 22.39 | 22.49 | 22.58 | 22.68 |
| 30 | 22.78 | 22.87 | 22.97 | 23.06 | 23.16 | 23.26 | 23.35 | 23.45 | 23.54 | 23.64 |
| 31 | 23.74 | 23.83 | 23.93 | 24.03 | 24.12 | 24.22 | 24.31 | 24.41 | 24.51 | 24.60 |
| 32 | 24.70 | 24.80 | 24.89 | 24.99 | 25.08 | 25.18 | 25.28 | 25.37 | 25.47 | 25.57 |
| 33 | 25.66 | 25.76 | 25.86 | 25.95 | 26.05 | 26.15 | 26.24 | 26.34 | 26.44 | 26.53 |
| 34 | 26.63 | 26.73 | 26.82 | 26.92 | 27.02 | 27.11 | 27.21 | 27.31 | 27.40 | 27.50 |
| 35 | 27.60 | 27.69 | 27.79 | 27.89 | 27.98 | 28.08 | 28.18 | 28.28 | 28.37 | 28.47 |
| 36 | 28.57 | 28.66 | 28.76 | 28.86 | 28.95 | 29.05 | 29.15 | 29.25 | 29.34 | 29.44 |
| 37 | 29.54 | 29.63 | 29.73 | 29.83 | 29.93 | 30.02 | 30.12 | 30.22 | 30.31 | 30.41 |
| 38 | 30.51 | 30.61 | 30.70 | 30.80 | 30.90 | 31.00 | 31.09 | 31.19 | 31.29 | 31.38 |
| 39 | 31.48 | 31.58 | 31.68 | 31.77 | 31.87 | 31.97 | 32.07 | 32.16 | 32.26 | 32.36 |
| 40 | 32.46 | 32.55 | 32.65 | 32.75 | 32.85 | 32.94 | 33.04 | 33.14 | 33.24 | 33.33 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | | 0.00 | 0.00 | 0.01 | 0.01 | 0.02 | 0.03 |
| 2 | 0.05 | 0.07 | 0.08 | 0.11 | 0.13 | 0.15 | 0.18 | 0.21 | 0.24 | 0.27 |
| 3 | 0.30 | 0.34 | 0.37 | 0.41 | 0.45 | 0.49 | 0.53 | 0.58 | 0.62 | 0.67 |
| 4 | 0.71 | 0.76 | 0.81 | 0.86 | 0.91 | 0.96 | 1.01 | 1.07 | 1.12 | 1.18 |
| 5 | 1.23 | 1.29 | 1.35 | 1.41 | 1.47 | 1.53 | 1.59 | 1.65 | 1.71 | 1.77 |
| 6 | 1.84 | 1.90 | 1.97 | 2.03 | 2.10 | 2.17 | 2.23 | 2.30 | 2.37 | 2.44 |
| 7 | 2.51 | 2.58 | 2.65 | 2.72 | 2.79 | 2.86 | 2.93 | 3.00 | 3.08 | 3.15 |
| 8 | 3.22 | 3.30 | 3.37 | 3.45 | 3.52 | 3.60 | 3.67 | 3.75 | 3.82 | 3.90 |
| 9 | 3.98 | 4.05 | 4.13 | 4.21 | 4.29 | 4.37 | 4.45 | 4.53 | 4.60 | 4.68 |
| 10 | 4.76 | 4.84 | 4.92 | 5.01 | 5.09 | 5.17 | 5.25 | 5.33 | 5.41 | 5.49 |
| 11 | 5.58 | 5.66 | 5.74 | 5.82 | 5.91 | 5.99 | 6.07 | 6.16 | 6.24 | 6.33 |
| 12 | 6.41 | 6.50 | 6.58 | 6.66 | 6.75 | 6.83 | 6.92 | 7.01 | 7.09 | 7.18 |
| 13 | 7.26 | 7.35 | 7.43 | 7.52 | 7.61 | 7.69 | 7.78 | 7.87 | 7.95 | 8.04 |
| 14 | 8.13 | 8.22 | 8.30 | 8.39 | 8.48 | 8.57 | 8.66 | 8.74 | 8.83 | 8.92 |
| 15 | 9.01 | 9.10 | 9.19 | 9.28 | 9.36 | 9.45 | 9.54 | 9.63 | 9.72 | 9.81 |
| 16 | 9.90 | 9.99 | 10.08 | 10.17 | 10.26 | 10.35 | 10.44 | 10.53 | 10.62 | 10.71 |
| 17 | 10.80 | 10.89 | 10.98 | 11.07 | 11.16 | 11.25 | 11.35 | 11.44 | 11.53 | 11.62 |
| 18 | 11.71 | 11.80 | 11.89 | 11.98 | 12.08 | 12.17 | 12.26 | 12.35 | 12.44 | 12.53 |
| 19 | 12.63 | 12.72 | 12.81 | 12.90 | 13.00 | 13.09 | 13.18 | 13.27 | 13.36 | 13.46 |
| 20 | 13.55 | 13.64 | 13.74 | 13.83 | 13.92 | 14.01 | 14.11 | 14.20 | 14.29 | 14.39 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 14.48 | 14.57 | 14.67 | 14.76 | 14.85 | 14.95 | 15.04 | 15.13 | 15.23 | 15.32 |
| 22 | 15.41 | 15.51 | 15.60 | 15.69 | 15.79 | 15.88 | 15.98 | 16.07 | 16.16 | 16.26 |
| 23 | 16.35 | 16.45 | 16.54 | 16.63 | 16.73 | 16.82 | 16.92 | 17.01 | 17.11 | 17.20 |
| 24 | 17.29 | 17.39 | 17.48 | 17.58 | 17.67 | 17.77 | 17.86 | 17.96 | 18.05 | 18.15 |
| 25 | 18.24 | 18.34 | 18.43 | 18.53 | 18.62 | 18.72 | 18.81 | 18.91 | 19.00 | 19.10 |
| 26 | 19.19 | 19.29 | 19.38 | 19.48 | 19.57 | 19.67 | 19.76 | 19.86 | 19.95 | 20.05 |
| 27 | 20.14 | 20.24 | 20.33 | 20.43 | 20.53 | 20.62 | 20.72 | 20.81 | 20.91 | 21.00 |
| 28 | 21.10 | 21.19 | 21.29 | 21.39 | 21.48 | 21.58 | 21.67 | 21.77 | 21.87 | 21.96 |
| 29 | 22.06 | 22.15 | 22.25 | 22.35 | 22.44 | 22.54 | 22.63 | 22.73 | 22.83 | 22.92 |
| 30 | 23.02 | 23.11 | 23.21 | 23.31 | 23.40 | 23.50 | 23.60 | 23.69 | 23.79 | 23.88 |
| 31 | 23.98 | 24.08 | 24.17 | 24.27 | 24.37 | 24.46 | 24.56 | 24.66 | 24.75 | 24.85 |
| 32 | 24.95 | 25.04 | 25.14 | 25.24 | 25.33 | 25.43 | 25.53 | 25.62 | 25.72 | 25.82 |
| 33 | 25.91 | 26.01 | 26.11 | 26.20 | 26.30 | 26.40 | 26.49 | 26.59 | 26.69 | 26.78 |
| 34 | 26.88 | 26.98 | 27.07 | 27.17 | 27.27 | 27.37 | 27.46 | 27.56 | 27.66 | 27.75 |
| 35 | 27.85 | 27.95 | 28.05 | 28.14 | 28.24 | 28.34 | 28.43 | 28.53 | 28.63 | 28.73 |
| 36 | 28.82 | 28.92 | 29.02 | 29.11 | 29.21 | 29.31 | 29.41 | 29.50 | 29.60 | 29.70 |
| 37 | 29.79 | 29.89 | 29.99 | 30.09 | 30.18 | 30.28 | 30.38 | 30.48 | 30.57 | 30.67 |
| 38 | 30.77 | 30.87 | 30.96 | 31.06 | 31.16 | 31.26 | 31.35 | 31.45 | 31.55 | 31.65 |
| 39 | 31.74 | 31.84 | 31.94 | 32.04 | 32.13 | 32.23 | 32.33 | 32.43 | 32.52 | 32.62 |
| 40 | 32.72 | 32.82 | 32.92 | 33.01 | 33.11 | 33.21 | 33.31 | 33.40 | 33.50 | 33.60 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 |
| 2 | 0.06 | 0.08 | 0.10 | 0.12 | 0.15 | 0.17 | 0.20 | 0.23 | 0.26 | 0.30 |
| 3 | 0.33 | 0.37 | 0.41 | 0.45 | 0.49 | 0.53 | 0.57 | 0.62 | 0.67 | 0.71 |
| 4 | 0.76 | 0.81 | 0.86 | 0.91 | 0.97 | 1.02 | 1.07 | 1.13 | 1.19 | 1.24 |
| 5 | 1.30 | 1.36 | 1.42 | 1.48 | 1.54 | 1.60 | 1.66 | 1.73 | 1.79 | 1.86 |
| 6 | 1.92 | 1.99 | 2.05 | 2.12 | 2.19 | 2.25 | 2.32 | 2.39 | 2.46 | 2.53 |
| 7 | 2.60 | 2.67 | 2.74 | 2.82 | 2.89 | 2.96 | 3.04 | 3.11 | 3.18 | 3.26 |
| 8 | 3.33 | 3.41 | 3.48 | 3.56 | 3.63 | 3.71 | 3.79 | 3.87 | 3.94 | 4.02 |
| 9 | 4.10 | 4.18 | 4.26 | 4.34 | 4.42 | 4.49 | 4.57 | 4.65 | 4.74 | 4.82 |
| 10 | 4.90 | 4.98 | 5.06 | 5.14 | 5.22 | 5.31 | 5.39 | 5.47 | 5.55 | 5.64 |
| 11 | 5.72 | 5.80 | 5.89 | 5.97 | 6.05 | 6.14 | 6.22 | 6.31 | 6.39 | 6.48 |
| 12 | 6.56 | 6.65 | 6.73 | 6.82 | 6.90 | 6.99 | 7.08 | 7.16 | 7.25 | 7.34 |
| 13 | 7.42 | 7.51 | 7.60 | 7.68 | 7.77 | 7.86 | 7.95 | 8.03 | 8.12 | 8.21 |
| 14 | 8.30 | 8.38 | 8.47 | 8.56 | 8.65 | 8.74 | 8.83 | 8.92 | 9.01 | 9.09 |
| 15 | 9.18 | 9.27 | 9.36 | 9.45 | 9.54 | 9.63 | 9.72 | 9.81 | 9.90 | 9.99 |
| 16 | 10.08 | 10.17 | 10.26 | 10.35 | 10.44 | 10.53 | 10.62 | 10.71 | 10.81 | 10.90 |
| 17 | 10.99 | 11.08 | 11.17 | 11.26 | 11.35 | 11.44 | 11.54 | 11.63 | 11.72 | 11.81 |
| 18 | 11.90 | 11.99 | 12.09 | 12.18 | 12.27 | 12.36 | 12.45 | 12.55 | 12.64 | 12.73 |
| 19 | 12.82 | 12.92 | 13.01 | 13.10 | 13.19 | 13.29 | 13.38 | 13.47 | 13.57 | 13.66 |
| 20 | 13.75 | 13.85 | 13.94 | 14.03 | 14.12 | 14.22 | 14.31 | 14.40 | 14.50 | 14.59 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 14.69 | 14.78 | 14.87 | 14.97 | 15.06 | 15.15 | 15.25 | 15.34 | 15.44 | 15.53 |
| 22 | 15.62 | 15.72 | 15.81 | 15.91 | 16.00 | 16.09 | 16.19 | 16.28 | 16.38 | 16.47 |
| 23 | 16.57 | 16.66 | 16.76 | 16.85 | 16.94 | 17.04 | 17.13 | 17.23 | 17.32 | 17.42 |
| 24 | 17.51 | 17.61 | 17.70 | 17.80 | 17.89 | 17.99 | 18.08 | 18.18 | 18.27 | 18.37 |
| 25 | 18.46 | 18.56 | 18.65 | 18.75 | 18.84 | 18.94 | 19.03 | 19.13 | 19.22 | 19.32 |
| 26 | 19.42 | 19.51 | 19.61 | 19.70 | 19.80 | 19.89 | 19.99 | 20.08 | 20.18 | 20.28 |
| 27 | 20.37 | 20.47 | 20.56 | 20.66 | 20.76 | 20.85 | 20.95 | 21.04 | 21.14 | 21.23 |
| 28 | 21.33 | 21.43 | 21.52 | 21.62 | 21.71 | 21.81 | 21.91 | 22.00 | 22.10 | 22.20 |
| 29 | 22.29 | 22.39 | 22.48 | 22.58 | 22.68 | 22.77 | 22.87 | 22.97 | 23.06 | 23.16 |
| 30 | 23.26 | 23.35 | 23.45 | 23.54 | 23.64 | 23.74 | 23.83 | 23.93 | 24.03 | 24.12 |
| 31 | 24.22 | 24.32 | 24.41 | 24.51 | 24.61 | 24.70 | 24.80 | 24.90 | 24.99 | 25.09 |
| 32 | 25.19 | 25.28 | 25.38 | 25.48 | 25.57 | 25.67 | 25.77 | 25.87 | 25.96 | 26.06 |
| 33 | 26.16 | 26.25 | 26.35 | 26.45 | 26.54 | 26.64 | 26.74 | 26.84 | 26.93 | 27.03 |
| 34 | 27.13 | 27.22 | 27.32 | 27.42 | 27.52 | 27.61 | 27.71 | 27.81 | 27.90 | 28.00 |
| 35 | 28.10 | 28.20 | 28.29 | 28.39 | 28.49 | 28.59 | 28.68 | 28.78 | 28.88 | 28.97 |
| 36 | 29.07 | 29.17 | 29.27 | 29.36 | 29.46 | 29.56 | 29.66 | 29.75 | 29.85 | 29.95 |
| 37 | 30.05 | 30.14 | 30.24 | 30.34 | 30.44 | 30.53 | 30.63 | 30.73 | 30.83 | 30.92 |
| 38 | 31.02 | 31.12 | 31.22 | 31.32 | 31.41 | 31.51 | 31.61 | 31.71 | 31.80 | 31.90 |
| 39 | 32.00 | 32.10 | 32.19 | 32.29 | 32.39 | 32.49 | 32.59 | 32.68 | 32.78 | 32.88 |
| 40 | 32.98 | 33.08 | 33.17 | 33.27 | 33.37 | 33.47 | 33.56 | 33.66 | 33.76 | 33.86 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 |
| 2 | 0.07 | 0.09 | 0.12 | 0.14 | 0.17 | 0.20 | 0.23 | 0.26 | 0.29 | 0.33 |
| 3 | 0.37 | 0.40 | 0.44 | 0.49 | 0.53 | 0.57 | 0.62 | 0.67 | 0.71 | 0.76 |
| 4 | 0.81 | 0.86 | 0.92 | 0.97 | 1.02 | 1.08 | 1.14 | 1.19 | 1.25 | 1.31 |
| 5 | 1.37 | 1.43 | 1.49 | 1.55 | 1.62 | 1.68 | 1.74 | 1.81 | 1.87 | 1.94 |
| 6 | 2.01 | 2.07 | 2.14 | 2.21 | 2.28 | 2.35 | 2.42 | 2.49 | 2.56 | 2.63 |
| 7 | 2.70 | 2.78 | 2.85 | 2.92 | 3.00 | 3.07 | 3.14 | 3.22 | 3.29 | 3.37 |
| 8 | 3.45 | 3.52 | 3.60 | 3.68 | 3.75 | 3.83 | 3.91 | 3.99 | 4.07 | 4.15 |
| 9 | 4.23 | 4.31 | 4.38 | 4.47 | 4.55 | 4.63 | 4.71 | 4.79 | 4.87 | 4.95 |
| 10 | 5.03 | 5.12 | 5.20 | 5.28 | 5.36 | 5.45 | 5.53 | 5.61 | 5.70 | 5.78 |
| 11 | 5.87 | 5.95 | 6.04 | 6.12 | 6.20 | 6.29 | 6.38 | 6.46 | 6.55 | 6.63 |
| 12 | 6.72 | 6.80 | 6.89 | 6.98 | 7.06 | 7.15 | 7.24 | 7.32 | 7.41 | 7.50 |
| 13 | 7.59 | 7.67 | 7.76 | 7.85 | 7.94 | 8.03 | 8.11 | 8.20 | 8.29 | 8.38 |
| 14 | 8.47 | 8.56 | 8.65 | 8.74 | 8.82 | 8.91 | 9.00 | 9.09 | 9.18 | 9.27 |
| 15 | 9.36 | 9.45 | 9.54 | 9.63 | 9.72 | 9.81 | 9.90 | 9.99 | 10.08 | 10.18 |
| 16 | 10.27 | 10.36 | 10.45 | 10.54 | 10.63 | 10.72 | 10.81 | 10.90 | 11.00 | 11.09 |
| 17 | 11.18 | 11.27 | 11.36 | 11.45 | 11.55 | 11.64 | 11.73 | 11.82 | 11.91 | 12.01 |
| 18 | 12.10 | 12.19 | 12.28 | 12.38 | 12.47 | 12.56 | 12.65 | 12.75 | 12.84 | 12.93 |
| 19 | 13.03 | 13.12 | 13.21 | 13.30 | 13.40 | 13.49 | 13.58 | 13.68 | 13.77 | 13.86 |
| 20 | 13.96 | 14.05 | 14.15 | 14.24 | 14.33 | 14.43 | 14.52 | 14.61 | 14.71 | 14.80 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

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RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 14.90 | 14.99 | 15.08 | 15.18 | 15.27 | 15.37 | 15.46 | 15.55 | 15.65 | 15.74 |
| 22 | 15.84 | 15.93 | 16.03 | 16.12 | 16.22 | 16.31 | 16.41 | 16.50 | 16.59 | 16.69 |
| 23 | 16.78 | 16.88 | 16.97 | 17.07 | 17.16 | 17.26 | 17.35 | 17.45 | 17.54 | 17.64 |
| 24 | 17.73 | 17.83 | 17.92 | 18.02 | 18.12 | 18.21 | 18.31 | 18.40 | 18.50 | 18.59 |
| 25 | 18.69 | 18.78 | 18.88 | 18.97 | 19.07 | 19.17 | 19.26 | 19.36 | 19.45 | 19.55 |
| 26 | 19.64 | 19.74 | 19.84 | 19.93 | 20.03 | 20.12 | 20.22 | 20.32 | 20.41 | 20.51 |
| 27 | 20.60 | 20.70 | 20.80 | 20.89 | 20.99 | 21.08 | 21.18 | 21.28 | 21.37 | 21.47 |
| 28 | 21.57 | 21.66 | 21.76 | 21.85 | 21.95 | 22.05 | 22.14 | 22.24 | 22.34 | 22.43 |
| 29 | 22.53 | 22.63 | 22.72 | 22.82 | 22.92 | 23.01 | 23.11 | 23.20 | 23.30 | 23.40 |
| 30 | 23.49 | 23.59 | 23.69 | 23.79 | 23.88 | 23.98 | 24.08 | 24.17 | 24.27 | 24.37 |
| 31 | 24.46 | 24.56 | 24.66 | 24.75 | 24.85 | 24.95 | 25.04 | 25.14 | 25.24 | 25.34 |
| 32 | 25.43 | 25.53 | 25.63 | 25.72 | 25.82 | 25.92 | 26.01 | 26.11 | 26.21 | 26.31 |
| 33 | 26.40 | 26.50 | 26.60 | 26.69 | 26.79 | 26.89 | 26.99 | 27.08 | 27.18 | 27.28 |
| 34 | 27.38 | 27.47 | 27.57 | 27.67 | 27.77 | 27.86 | 27.96 | 28.06 | 28.16 | 28.25 |
| 35 | 28.35 | 28.45 | 28.54 | 28.64 | 28.74 | 28.84 | 28.93 | 29.03 | 29.13 | 29.23 |
| 36 | 29.33 | 29.42 | 29.52 | 29.62 | 29.72 | 29.81 | 29.91 | 30.01 | 30.11 | 30.20 |
| 37 | 30.30 | 30.40 | 30.50 | 30.59 | 30.69 | 30.79 | 30.89 | 30.99 | 31.08 | 31.18 |
| 38 | 31.28 | 31.38 | 31.47 | 31.57 | 31.67 | 31.77 | 31.87 | 31.96 | 32.06 | 32.16 |
| 39 | 32.26 | 32.36 | 32.45 | 32.55 | 32.65 | 32.75 | 32.85 | 32.94 | 33.04 | 33.14 |
| 40 | 33.24 | 33.34 | 33.43 | 33.53 | 33.63 | 33.73 | 33.83 | 33.92 | 34.02 | 34.12 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 |
| 2 | 0.09 | 0.11 | 0.13 | 0.16 | 0.19 | 0.22 | 0.25 | 0.29 | 0.32 | 0.36 |
| 3 | 0.40 | 0.44 | 0.48 | 0.52 | 0.57 | 0.62 | 0.66 | 0.71 | 0.76 | 0.81 |
| 4 | 0.86 | 0.92 | 0.97 | 1.03 | 1.08 | 1.14 | 1.20 | 1.26 | 1.32 | 1.38 |
| 5 | 1.44 | 1.50 | 1.56 | 1.63 | 1.69 | 1.76 | 1.82 | 1.89 | 1.95 | 2.02 |
| 6 | 2.09 | 2.16 | 2.23 | 2.30 | 2.37 | 2.44 | 2.51 | 2.58 | 2.65 | 2.73 |
| 7 | 2.80 | 2.87 | 2.95 | 3.02 | 3.10 | 3.17 | 3.25 | 3.33 | 3.40 | 3.48 |
| 8 | 3.56 | 3.63 | 3.71 | 3.79 | 3.87 | 3.95 | 4.03 | 4.11 | 4.19 | 4.27 |
| 9 | 4.35 | 4.43 | 4.51 | 4.59 | 4.67 | 4.75 | 4.83 | 4.92 | 5.00 | 5.08 |
| 10 | 5.17 | 5.25 | 5.33 | 5.42 | 5.50 | 5.58 | 5.67 | 5.75 | 5.84 | 5.92 |
| 11 | 6.01 | 6.09 | 6.18 | 6.26 | 6.35 | 6.43 | 6.52 | 6.61 | 6.69 | 6.78 |
| 12 | 6.87 | 6.95 | 7.04 | 7.13 | 7.22 | 7.30 | 7.39 | 7.48 | 7.57 | 7.65 |
| 13 | 7.74 | 7.83 | 7.92 | 8.01 | 8.10 | 8.19 | 8.27 | 8.36 | 8.45 | 8.54 |
| 14 | 8.63 | 8.72 | 8.81 | 8.90 | 8.99 | 9.08 | 9.17 | 9.26 | 9.35 | 9.44 |
| 15 | 9.53 | 9.62 | 9.71 | 9.80 | 9.89 | 9.99 | 10.08 | 10.17 | 10.26 | 10.35 |
| 16 | 10.44 | 10.53 | 10.62 | 10.72 | 10.81 | 10.90 | 10.99 | 11.08 | 11.18 | 11.27 |
| 17 | 11.36 | 11.45 | 11.54 | 11.64 | 11.73 | 11.82 | 11.91 | 12.01 | 12.10 | 12.19 |
| 18 | 12.28 | 12.38 | 12.47 | 12.56 | 12.66 | 12.75 | 12.84 | 12.94 | 13.03 | 13.12 |
| 19 | 13.22 | 13.31 | 13.40 | 13.50 | 13.59 | 13.68 | 13.78 | 13.87 | 13.97 | 14.06 |
| 20 | 14.15 | 14.25 | 14.34 | 14.43 | 14.53 | 14.62 | 14.72 | 14.81 | 14.91 | 15.00 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

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RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 15.09 | 15.19 | 15.28 | 15.38 | 15.47 | 15.57 | 15.66 | 15.76 | 15.85 | 15.95 |
| 22 | 16.04 | 16.14 | 16.23 | 16.33 | 16.42 | 16.52 | 16.61 | 16.71 | 16.80 | 16.90 |
| 23 | 16.99 | 17.09 | 17.18 | 17.28 | 17.37 | 17.47 | 17.56 | 17.66 | 17.75 | 17.85 |
| 24 | 17.94 | 18.04 | 18.14 | 18.23 | 18.33 | 18.42 | 18.52 | 18.61 | 18.71 | 18.80 |
| 25 | 18.90 | 19.00 | 19.09 | 19.19 | 19.28 | 19.38 | 19.48 | 19.57 | 19.67 | 19.76 |
| 26 | 19.86 | 19.96 | 20.05 | 20.15 | 20.24 | 20.34 | 20.44 | 20.53 | 20.63 | 20.73 |
| 27 | 20.82 | 20.92 | 21.01 | 21.11 | 21.21 | 21.30 | 21.40 | 21.50 | 21.59 | 21.69 |
| 28 | 21.79 | 21.88 | 21.98 | 22.08 | 22.17 | 22.27 | 22.37 | 22.46 | 22.56 | 22.66 |
| 29 | 22.75 | 22.85 | 22.95 | 23.04 | 23.14 | 23.24 | 23.33 | 23.43 | 23.53 | 23.62 |
| 30 | 23.72 | 23.82 | 23.91 | 24.01 | 24.11 | 24.21 | 24.30 | 24.40 | 24.50 | 24.59 |
| 31 | 24.69 | 24.79 | 24.88 | 24.98 | 25.08 | 25.18 | 25.27 | 25.37 | 25.47 | 25.56 |
| 32 | 25.66 | 25.76 | 25.86 | 25.95 | 26.05 | 26.15 | 26.25 | 26.34 | 26.44 | 26.54 |
| 33 | 26.64 | 26.73 | 26.83 | 26.93 | 27.02 | 27.12 | 27.22 | 27.32 | 27.41 | 27.51 |
| 34 | 27.61 | 27.71 | 27.80 | 27.90 | 28.00 | 28.10 | 28.20 | 28.29 | 28.39 | 28.49 |
| 35 | 28.59 | 28.68 | 28.78 | 28.88 | 28.98 | 29.07 | 29.17 | 29.27 | 29.37 | 29.46 |
| 36 | 29.56 | 29.66 | 29.76 | 29.86 | 29.95 | 30.05 | 30.15 | 30.25 | 30.35 | 30.44 |
| 37 | 30.54 | 30.64 | 30.74 | 30.83 | 30.93 | 31.03 | 31.13 | 31.23 | 31.32 | 31.42 |
| 38 | 31.52 | 31.62 | 31.72 | 31.81 | 31.91 | 32.01 | 32.11 | 32.21 | 32.30 | 32.40 |
| 39 | 32.50 | 32.60 | 32.70 | 32.79 | 32.89 | 32.99 | 33.09 | 33.19 | 33.28 | 33.38 |
| 40 | 33.48 | 33.58 | 33.68 | 33.78 | 33.87 | 33.97 | 34.07 | 34.17 | 34.27 | 34.36 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.04 | 0.06 | 0.08 |
| 2 | 0.10 | 0.13 | 0.15 | 0.18 | 0.21 | 0.24 | 0.28 | 0.31 | 0.35 | 0.39 |
| 3 | 0.43 | 0.48 | 0.52 | 0.57 | 0.61 | 0.66 | 0.71 | 0.76 | 0.81 | 0.86 |
| 4 | 0.92 | 0.97 | 1.03 | 1.09 | 1.14 | 1.20 | 1.26 | 1.32 | 1.38 | 1.45 |
| 5 | 1.51 | 1.57 | 1.64 | 1.70 | 1.77 | 1.84 | 1.90 | 1.97 | 2.04 | 2.11 |
| 6 | 2.18 | 2.25 | 2.32 | 2.39 | 2.46 | 2.53 | 2.61 | 2.68 | 2.75 | 2.83 |
| 7 | 2.90 | 2.98 | 3.05 | 3.13 | 3.20 | 3.28 | 3.36 | 3.44 | 3.51 | 3.59 |
| 8 | 3.67 | 3.75 | 3.83 | 3.91 | 3.99 | 4.07 | 4.15 | 4.23 | 4.31 | 4.39 |
| 9 | 4.47 | 4.55 | 4.64 | 4.72 | 4.80 | 4.88 | 4.97 | 5.05 | 5.13 | 5.22 |
| 10 | 5.30 | 5.38 | 5.47 | 5.55 | 5.64 | 5.72 | 5.81 | 5.89 | 5.98 | 6.07 |
| 11 | 6.15 | 6.24 | 6.32 | 6.41 | 6.50 | 6.58 | 6.67 | 6.76 | 6.84 | 6.93 |
| 12 | 7.02 | 7.11 | 7.20 | 7.28 | 7.37 | 7.46 | 7.55 | 7.64 | 7.73 | 7.81 |
| 13 | 7.90 | 7.99 | 8.08 | 8.17 | 8.26 | 8.35 | 8.44 | 8.53 | 8.62 | 8.71 |
| 14 | 8.80 | 8.89 | 8.98 | 9.07 | 9.16 | 9.25 | 9.34 | 9.43 | 9.52 | 9.61 |
| 15 | 9.71 | 9.80 | 9.89 | 9.98 | 10.07 | 10.16 | 10.25 | 10.35 | 10.44 | 10.53 |
| 16 | 10.62 | 10.71 | 10.80 | 10.90 | 10.99 | 11.08 | 11.17 | 11.27 | 11.36 | 11.45 |
| 17 | 11.54 | 11.64 | 11.73 | 11.82 | 11.92 | 12.01 | 12.10 | 12.19 | 12.29 | 12.38 |
| 18 | 12.47 | 12.57 | 12.66 | 12.75 | 12.85 | 12.94 | 13.04 | 13.13 | 13.22 | 13.32 |
| 19 | 13.41 | 13.50 | 13.60 | 13.69 | 13.79 | 13.88 | 13.97 | 14.07 | 14.16 | 14.26 |
| 20 | 14.35 | 14.45 | 14.54 | 14.63 | 14.73 | 14.82 | 14.92 | 15.01 | 15.11 | 15.20 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 15.30 | 15.39 | 15.49 | 15.58 | 15.68 | 15.77 | 15.87 | 15.96 | 16.06 | 16.15 |
| 22 | 16.25 | 16.34 | 16.44 | 16.53 | 16.63 | 16.72 | 16.82 | 16.91 | 17.01 | 17.10 |
| 23 | 17.20 | 17.30 | 17.39 | 17.49 | 17.58 | 17.68 | 17.77 | 17.87 | 17.97 | 18.06 |
| 24 | 18.16 | 18.25 | 18.35 | 18.44 | 18.54 | 18.64 | 18.73 | 18.83 | 18.92 | 19.02 |
| 25 | 19.12 | 19.21 | 19.31 | 19.40 | 19.50 | 19.60 | 19.69 | 19.79 | 19.89 | 19.98 |
| 26 | 20.08 | 20.17 | 20.27 | 20.37 | 20.46 | 20.56 | 20.66 | 20.75 | 20.85 | 20.95 |
| 27 | 21.04 | 21.14 | 21.24 | 21.33 | 21.43 | 21.53 | 21.62 | 21.72 | 21.82 | 21.91 |
| 28 | 22.01 | 22.11 | 22.20 | 22.30 | 22.40 | 22.49 | 22.59 | 22.69 | 22.78 | 22.88 |
| 29 | 22.98 | 23.08 | 23.17 | 23.27 | 23.37 | 23.46 | 23.56 | 23.66 | 23.75 | 23.85 |
| 30 | 23.95 | 24.05 | 24.14 | 24.24 | 24.34 | 24.43 | 24.53 | 24.63 | 24.73 | 24.82 |
| 31 | 24.92 | 25.02 | 25.12 | 25.21 | 25.31 | 25.41 | 25.51 | 25.60 | 25.70 | 25.80 |
| 32 | 25.89 | 25.99 | 26.09 | 26.19 | 26.28 | 26.38 | 26.48 | 26.58 | 26.67 | 26.77 |
| 33 | 26.87 | 26.97 | 27.07 | 27.16 | 27.26 | 27.36 | 27.46 | 27.55 | 27.65 | 27.75 |
| 34 | 27.85 | 27.94 | 28.04 | 28.14 | 28.24 | 28.34 | 28.43 | 28.53 | 28.63 | 28.73 |
| 35 | 28.82 | 28.92 | 29.02 | 29.12 | 29.22 | 29.31 | 29.41 | 29.51 | 29.61 | 29.70 |
| 36 | 29.80 | 29.90 | 30.00 | 30.10 | 30.19 | 30.29 | 30.39 | 30.49 | 30.59 | 30.68 |
| 37 | 30.78 | 30.88 | 30.98 | 31.08 | 31.17 | 31.27 | 31.37 | 31.47 | 31.57 | 31.66 |
| 38 | 31.76 | 31.86 | 31.96 | 32.06 | 32.16 | 32.25 | 32.35 | 32.45 | 32.55 | 32.65 |
| 39 | 32.74 | 32.84 | 32.94 | 33.04 | 33.14 | 33.24 | 33.33 | 33.43 | 33.53 | 33.63 |
| 40 | 33.73 | 33.83 | 33.92 | 34.02 | 34.12 | 34.22 | 34.32 | 34.41 | 34.51 | 34.61 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.05 | 0.07 | 0.09 |
| 2 | 0.12 | 0.14 | 0.17 | 0.20 | 0.24 | 0.27 | 0.31 | 0.35 | 0.39 | 0.43 |
| 3 | 0.47 | 0.51 | 0.56 | 0.61 | 0.66 | 0.71 | 0.76 | 0.81 | 0.86 | 0.92 |
| 4 | 0.97 | 1.03 | 1.09 | 1.15 | 1.21 | 1.27 | 1.33 | 1.39 | 1.45 | 1.52 |
| 5 | 1.58 | 1.65 | 1.71 | 1.78 | 1.85 | 1.92 | 1.98 | 2.05 | 2.12 | 2.19 |
| 6 | 2.27 | 2.34 | 2.41 | 2.48 | 2.55 | 2.63 | 2.70 | 2.78 | 2.85 | 2.93 |
| 7 | 3.00 | 3.08 | 3.16 | 3.23 | 3.31 | 3.39 | 3.47 | 3.55 | 3.62 | 3.70 |
| 8 | 3.78 | 3.86 | 3.94 | 4.02 | 4.11 | 4.19 | 4.27 | 4.35 | 4.43 | 4.51 |
| 9 | 4.60 | 4.68 | 4.76 | 4.85 | 4.93 | 5.01 | 5.10 | 5.18 | 5.27 | 5.35 |
| 10 | 5.43 | 5.52 | 5.61 | 5.69 | 5.78 | 5.86 | 5.95 | 6.03 | 6.12 | 6.21 |
| 11 | 6.29 | 6.38 | 6.47 | 6.56 | 6.64 | 6.73 | 6.82 | 6.91 | 6.99 | 7.08 |
| 12 | 7.17 | 7.26 | 7.35 | 7.44 | 7.53 | 7.61 | 7.70 | 7.79 | 7.88 | 7.97 |
| 13 | 8.06 | 8.15 | 8.24 | 8.33 | 8.42 | 8.51 | 8.60 | 8.69 | 8.78 | 8.87 |
| 14 | 8.96 | 9.05 | 9.15 | 9.24 | 9.33 | 9.42 | 9.51 | 9.60 | 9.69 | 9.78 |
| 15 | 9.88 | 9.97 | 10.06 | 10.15 | 10.24 | 10.34 | 10.43 | 10.52 | 10.61 | 10.70 |
| 16 | 10.80 | 10.89 | 10.98 | 11.07 | 11.17 | 11.26 | 11.35 | 11.45 | 11.54 | 11.63 |
| 17 | 11.73 | 11.82 | 11.91 | 12.01 | 12.10 | 12.19 | 12.29 | 12.38 | 12.47 | 12.57 |
| 18 | 12.66 | 12.75 | 12.85 | 12.94 | 13.04 | 13.13 | 13.22 | 13.32 | 13.41 | 13.51 |
| 19 | 13.60 | 13.69 | 13.79 | 13.88 | 13.98 | 14.07 | 14.17 | 14.26 | 14.36 | 14.45 |
| 20 | 14.55 | 14.64 | 14.73 | 14.83 | 14.92 | 15.02 | 15.11 | 15.21 | 15.30 | 15.40 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

CURVE
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RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 15.49 | 15.59 | 15.69 | 15.78 | 15.88 | 15.97 | 16.07 | 16.16 | 16.26 | 16.35 |
| 22 | 16.45 | 16.54 | 16.64 | 16.73 | 16.83 | 16.93 | 17.02 | 17.12 | 17.21 | 17.31 |
| 23 | 17.40 | 17.50 | 17.60 | 17.69 | 17.79 | 17.88 | 17.98 | 18.08 | 18.17 | 18.27 |
| 24 | 18.36 | 18.46 | 18.56 | 18.65 | 18.75 | 18.85 | 18.94 | 19.04 | 19.13 | 19.23 |
| 25 | 19.33 | 19.42 | 19.52 | 19.62 | 19.71 | 19.81 | 19.91 | 20.00 | 20.10 | 20.20 |
| 26 | 20.29 | 20.39 | 20.48 | 20.58 | 20.68 | 20.77 | 20.87 | 20.97 | 21.07 | 21.16 |
| 27 | 21.26 | 21.36 | 21.45 | 21.55 | 21.65 | 21.74 | 21.84 | 21.94 | 22.03 | 22.13 |
| 28 | 22.23 | 22.32 | 22.42 | 22.52 | 22.62 | 22.71 | 22.81 | 22.91 | 23.00 | 23.10 |
| 29 | 23.20 | 23.30 | 23.39 | 23.49 | 23.59 | 23.69 | 23.78 | 23.88 | 23.98 | 24.07 |
| 30 | 24.17 | 24.27 | 24.37 | 24.46 | 24.56 | 24.66 | 24.76 | 24.85 | 24.95 | 25.05 |
| 31 | 25.15 | 25.24 | 25.34 | 25.44 | 25.54 | 25.63 | 25.73 | 25.83 | 25.93 | 26.02 |
| 32 | 26.12 | 26.22 | 26.32 | 26.41 | 26.51 | 26.61 | 26.71 | 26.81 | 26.90 | 27.00 |
| 33 | 27.10 | 27.20 | 27.29 | 27.39 | 27.49 | 27.59 | 27.69 | 27.78 | 27.88 | 27.98 |
| 34 | 28.08 | 28.17 | 28.27 | 28.37 | 28.47 | 28.57 | 28.66 | 28.76 | 28.86 | 28.96 |
| 35 | 29.06 | 29.15 | 29.25 | 29.35 | 29.45 | 29.55 | 29.64 | 29.74 | 29.84 | 29.94 |
| 36 | 30.04 | 30.13 | 30.23 | 30.33 | 30.43 | 30.53 | 30.62 | 30.72 | 30.82 | 30.92 |
| 37 | 31.02 | 31.12 | 31.21 | 31.31 | 31.41 | 31.51 | 31.61 | 31.70 | 31.80 | 31.90 |
| 38 | 32.00 | 32.10 | 32.20 | 32.29 | 32.39 | 32.49 | 32.59 | 32.69 | 32.79 | 32.88 |
| 39 | 32.98 | 33.08 | 33.18 | 33.28 | 33.38 | 33.47 | 33.57 | 33.67 | 33.77 | 33.87 |
| 40 | 33.97 | 34.06 | 34.16 | 34.26 | 34.36 | 34.46 | 34.56 | 34.65 | 34.75 | 34.85 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.06 | 0.09 | 0.11 |
| 2 | 0.14 | 0.16 | 0.19 | 0.23 | 0.26 | 0.30 | 0.34 | 0.38 | 0.42 | 0.46 |
| 3 | 0.51 | 0.55 | 0.60 | 0.65 | 0.70 | 0.75 | 0.81 | 0.86 | 0.92 | 0.97 |
| 4 | 1.03 | 1.09 | 1.15 | 1.21 | 1.27 | 1.33 | 1.39 | 1.46 | 1.52 | 1.59 |
| 5 | 1.65 | 1.72 | 1.79 | 1.86 | 1.93 | 2.00 | 2.07 | 2.14 | 2.21 | 2.28 |
| 6 | 2.35 | 2.43 | 2.50 | 2.57 | 2.65 | 2.72 | 2.80 | 2.87 | 2.95 | 3.03 |
| 7 | 3.10 | 3.18 | 3.26 | 3.34 | 3.42 | 3.50 | 3.58 | 3.66 | 3.74 | 3.82 |
| 8 | 3.90 | 3.98 | 4.06 | 4.14 | 4.22 | 4.30 | 4.39 | 4.47 | 4.55 | 4.64 |
| 9 | 4.72 | 4.80 | 4.89 | 4.97 | 5.06 | 5.14 | 5.23 | 5.31 | 5.40 | 5.48 |
| 10 | 5.57 | 5.65 | 5.74 | 5.83 | 5.91 | 6.00 | 6.09 | 6.17 | 6.26 | 6.35 |
| 11 | 6.44 | 6.52 | 6.61 | 6.70 | 6.79 | 6.88 | 6.96 | 7.05 | 7.14 | 7.23 |
| 12 | 7.32 | 7.41 | 7.50 | 7.59 | 7.68 | 7.77 | 7.86 | 7.95 | 8.04 | 8.13 |
| 13 | 8.22 | 8.31 | 8.40 | 8.49 | 8.58 | 8.67 | 8.76 | 8.85 | 8.94 | 9.03 |
| 14 | 9.13 | 9.22 | 9.31 | 9.40 | 9.49 | 9.58 | 9.68 | 9.77 | 9.86 | 9.95 |
| 15 | 10.04 | 10.14 | 10.23 | 10.32 | 10.41 | 10.51 | 10.60 | 10.69 | 10.78 | 10.88 |
| 16 | 10.97 | 11.06 | 11.16 | 11.25 | 11.34 | 11.44 | 11.53 | 11.62 | 11.72 | 11.81 |
| 17 | 11.90 | 12.00 | 12.09 | 12.18 | 12.28 | 12.37 | 12.47 | 12.56 | 12.65 | 12.75 |
| 18 | 12.84 | 12.94 | 13.03 | 13.12 | 13.22 | 13.31 | 13.41 | 13.50 | 13.60 | 13.69 |
| 19 | 13.79 | 13.88 | 13.98 | 14.07 | 14.17 | 14.26 | 14.35 | 14.45 | 14.54 | 14.64 |
| 20 | 14.73 | 14.83 | 14.93 | 15.02 | 15.12 | 15.21 | 15.31 | 15.40 | 15.50 | 15.59 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 15.69 | 15.78 | 15.88 | 15.97 | 16.07 | 16.17 | 16.26 | 16.36 | 16.45 | 16.55 |
| 22 | 16.64 | 16.74 | 16.84 | 16.93 | 17.03 | 17.12 | 17.22 | 17.32 | 17.41 | 17.51 |
| 23 | 17.60 | 17.70 | 17.80 | 17.89 | 17.99 | 18.08 | 18.18 | 18.28 | 18.37 | 18.47 |
| 24 | 18.57 | 18.66 | 18.76 | 18.86 | 18.95 | 19.05 | 19.15 | 19.24 | 19.34 | 19.44 |
| 25 | 19.53 | 19.63 | 19.73 | 19.82 | 19.92 | 20.02 | 20.11 | 20.21 | 20.31 | 20.40 |
| 26 | 20.50 | 20.60 | 20.69 | 20.79 | 20.89 | 20.98 | 21.08 | 21.18 | 21.27 | 21.37 |
| 27 | 21.47 | 21.57 | 21.66 | 21.76 | 21.86 | 21.95 | 22.05 | 22.15 | 22.25 | 22.34 |
| 28 | 22.44 | 22.54 | 22.63 | 22.73 | 22.83 | 22.93 | 23.02 | 23.12 | 23.22 | 23.32 |
| 29 | 23.41 | 23.51 | 23.61 | 23.71 | 23.80 | 23.90 | 24.00 | 24.10 | 24.19 | 24.29 |
| 30 | 24.39 | 24.49 | 24.58 | 24.68 | 24.78 | 24.88 | 24.97 | 25.07 | 25.17 | 25.27 |
| 31 | 25.36 | 25.46 | 25.56 | 25.66 | 25.75 | 25.85 | 25.95 | 26.05 | 26.15 | 26.24 |
| 32 | 26.34 | 26.44 | 26.54 | 26.63 | 26.73 | 26.83 | 26.93 | 27.03 | 27.12 | 27.22 |
| 33 | 27.32 | 27.42 | 27.52 | 27.61 | 27.71 | 27.81 | 27.91 | 28.01 | 28.10 | 28.20 |
| 34 | 28.30 | 28.40 | 28.50 | 28.59 | 28.69 | 28.79 | 28.89 | 28.99 | 29.08 | 29.18 |
| 35 | 29.28 | 29.38 | 29.48 | 29.57 | 29.67 | 29.77 | 29.87 | 29.97 | 30.07 | 30.16 |
| 36 | 30.26 | 30.36 | 30.46 | 30.56 | 30.66 | 30.75 | 30.85 | 30.95 | 31.05 | 31.15 |
| 37 | 31.24 | 31.34 | 31.44 | 31.54 | 31.64 | 31.74 | 31.83 | 31.93 | 32.03 | 32.13 |
| 38 | 32.23 | 32.33 | 32.42 | 32.52 | 32.62 | 32.72 | 32.82 | 32.92 | 33.02 | 33.11 |
| 39 | 33.21 | 33.31 | 33.41 | 33.51 | 33.61 | 33.70 | 33.80 | 33.90 | 34.00 | 34.10 |
| 40 | 34.20 | 34.30 | 34.39 | 34.49 | 34.59 | 34.69 | 34.79 | 34.89 | 34.99 | 35.08 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | | 0.00 | 0.01 | 0.01 | 0.02 | 0.04 | 0.06 | 0.08 | 0.10 | 0.13 |
| 2 | 0.15 | 0.18 | 0.22 | 0.25 | 0.29 | 0.33 | 0.37 | 0.41 | 0.45 | 0.50 |
| 3 | 0.55 | 0.59 | 0.64 | 0.69 | 0.75 | 0.80 | 0.86 | 0.91 | 0.97 | 1.03 |
| 4 | 1.09 | 1.15 | 1.21 | 1.27 | 1.33 | 1.40 | 1.46 | 1.53 | 1.59 | 1.66 |
| 5 | 1.73 | 1.80 | 1.87 | 1.94 | 2.01 | 2.08 | 2.15 | 2.22 | 2.29 | 2.37 |
| 6 | 2.44 | 2.52 | 2.59 | 2.67 | 2.74 | 2.82 | 2.89 | 2.97 | 3.05 | 3.13 |
| 7 | 3.21 | 3.28 | 3.36 | 3.44 | 3.52 | 3.60 | 3.68 | 3.76 | 3.85 | 3.93 |
| 8 | 4.01 | 4.09 | 4.17 | 4.26 | 4.34 | 4.42 | 4.51 | 4.59 | 4.67 | 4.76 |
| 9 | 4.84 | 4.93 | 5.01 | 5.10 | 5.18 | 5.27 | 5.35 | 5.44 | 5.53 | 5.61 |
| 10 | 5.70 | 5.79 | 5.87 | 5.96 | 6.05 | 6.13 | 6.22 | 6.31 | 6.40 | 6.49 |
| 11 | 6.57 | 6.66 | 6.75 | 6.84 | 6.93 | 7.02 | 7.11 | 7.20 | 7.29 | 7.38 |
| 12 | 7.47 | 7.56 | 7.65 | 7.74 | 7.83 | 7.92 | 8.01 | 8.10 | 8.19 | 8.28 |
| 13 | 8.37 | 8.46 | 8.55 | 8.64 | 8.73 | 8.83 | 8.92 | 9.01 | 9.10 | 9.19 |
| 14 | 9.28 | 9.38 | 9.47 | 9.56 | 9.65 | 9.74 | 9.84 | 9.93 | 10.02 | 10.11 |
| 15 | 10.21 | 10.30 | 10.39 | 10.49 | 10.58 | 10.67 | 10.76 | 10.86 | 10.95 | 11.04 |
| 16 | 11.14 | 11.23 | 11.33 | 11.42 | 11.51 | 11.61 | 11.70 | 11.79 | 11.89 | 11.98 |
| 17 | 12.08 | 12.17 | 12.26 | 12.36 | 12.45 | 12.55 | 12.64 | 12.74 | 12.83 | 12.92 |
| 18 | 13.02 | 13.11 | 13.21 | 13.30 | 13.40 | 13.49 | 13.59 | 13.68 | 13.78 | 13.87 |
| 19 | 13.97 | 14.06 | 14.16 | 14.25 | 14.35 | 14.44 | 14.54 | 14.63 | 14.73 | 14.82 |
| 20 | 14.92 | 15.02 | 15.11 | 15.21 | 15.30 | 15.40 | 15.49 | 15.59 | 15.68 | 15.78 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 15.88 | 15.97 | 16.07 | 16.16 | 16.26 | 16.36 | 16.45 | 16.55 | 16.64 | 16.74 |
| 22 | 16.84 | 16.93 | 17.03 | 17.12 | 17.22 | 17.32 | 17.41 | 17.51 | 17.61 | 17.70 |
| 23 | 17.80 | 17.89 | 17.99 | 18.09 | 18.18 | 18.28 | 18.38 | 18.47 | 18.57 | 18.67 |
| 24 | 18.76 | 18.86 | 18.96 | 19.05 | 19.15 | 19.25 | 19.34 | 19.44 | 19.54 | 19.63 |
| 25 | 19.73 | 19.83 | 19.92 | 20.02 | 20.12 | 20.22 | 20.31 | 20.41 | 20.51 | 20.60 |
| 26 | 20.70 | 20.80 | 20.89 | 20.99 | 21.09 | 21.19 | 21.28 | 21.38 | 21.48 | 21.57 |
| 27 | 21.67 | 21.77 | 21.87 | 21.96 | 22.06 | 22.16 | 22.26 | 22.35 | 22.45 | 22.55 |
| 28 | 22.65 | 22.74 | 22.84 | 22.94 | 23.04 | 23.13 | 23.23 | 23.33 | 23.43 | 23.52 |
| 29 | 23.62 | 23.72 | 23.82 | 23.91 | 24.01 | 24.11 | 24.21 | 24.30 | 24.40 | 24.50 |
| 30 | 24.60 | 24.70 | 24.79 | 24.89 | 24.99 | 25.09 | 25.18 | 25.28 | 25.38 | 25.48 |
| 31 | 25.58 | 25.67 | 25.77 | 25.87 | 25.97 | 26.06 | 26.16 | 26.26 | 26.36 | 26.46 |
| 32 | 26.55 | 26.65 | 26.75 | 26.85 | 26.95 | 27.04 | 27.14 | 27.24 | 27.34 | 27.44 |
| 33 | 27.53 | 27.63 | 27.73 | 27.83 | 27.93 | 28.02 | 28.12 | 28.22 | 28.32 | 28.42 |
| 34 | 28.52 | 28.61 | 28.71 | 28.81 | 28.91 | 29.01 | 29.10 | 29.20 | 29.30 | 29.40 |
| 35 | 29.50 | 29.60 | 29.69 | 29.79 | 29.89 | 29.99 | 30.09 | 30.19 | 30.28 | 30.38 |
| 36 | 30.48 | 30.58 | 30.68 | 30.78 | 30.87 | 30.97 | 31.07 | 31.17 | 31.27 | 31.37 |
| 37 | 31.46 | 31.56 | 31.66 | 31.76 | 31.86 | 31.96 | 32.06 | 32.15 | 32.25 | 32.35 |
| 38 | 32.45 | 32.55 | 32.65 | 32.75 | 32.84 | 32.94 | 33.04 | 33.14 | 33.24 | 33.34 |
| 39 | 33.44 | 33.53 | 33.63 | 33.73 | 33.83 | 33.93 | 34.03 | 34.13 | 34.22 | 34.32 |
| 40 | 34.42 | 34.52 | 34.62 | 34.72 | 34.82 | 34.91 | 35.01 | 35.11 | 35.21 | 35.31 |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | 0.00 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.14 |
| 2 | 0.17 | 0.21 | 0.24 | 0.28 | 0.32 | 0.36 | 0.40 | 0.44 | 0.49 | 0.54 |
| 3 | 0.59 | 0.64 | 0.69 | 0.74 | 0.80 | 0.85 | 0.91 | 0.97 | 1.03 | 1.09 |
| 4 | 1.15 | 1.21 | 1.27 | 1.34 | 1.40 | 1.47 | 1.53 | 1.60 | 1.67 | 1.74 |
| 5 | 1.80 | 1.87 | 1.95 | 2.02 | 2.09 | 2.16 | 2.23 | 2.31 | 2.38 | 2.46 |
| 6 | 2.53 | 2.61 | 2.68 | 2.76 | 2.84 | 2.92 | 2.99 | 3.07 | 3.15 | 3.23 |
| 7 | 3.31 | 3.39 | 3.47 | 3.55 | 3.63 | 3.71 | 3.79 | 3.88 | 3.96 | 4.04 |
| 8 | 4.12 | 4.21 | 4.29 | 4.37 | 4.46 | 4.54 | 4.63 | 4.71 | 4.80 | 4.88 |
| 9 | 4.97 | 5.05 | 5.14 | 5.22 | 5.31 | 5.40 | 5.48 | 5.57 | 5.66 | 5.75 |
| 10 | 5.83 | 5.92 | 6.01 | 6.10 | 6.18 | 6.27 | 6.36 | 6.45 | 6.54 | 6.63 |
| 11 | 6.72 | 6.81 | 6.90 | 6.98 | 7.07 | 7.16 | 7.25 | 7.34 | 7.43 | 7.52 |
| 12 | 7.61 | 7.71 | 7.80 | 7.89 | 7.98 | 8.07 | 8.16 | 8.25 | 8.34 | 8.43 |
| 13 | 8.53 | 8.62 | 8.71 | 8.80 | 8.89 | 8.98 | 9.08 | 9.17 | 9.26 | 9.35 |
| 14 | 9.45 | 9.54 | 9.63 | 9.72 | 9.82 | 9.91 | 10.00 | 10.09 | 10.19 | 10.28 |
| 15 | 10.37 | 10.47 | 10.56 | 10.65 | 10.75 | 10.84 | 10.94 | 11.03 | 11.12 | 11.22 |
| 16 | 11.31 | 11.40 | 11.50 | 11.59 | 11.69 | 11.78 | 11.87 | 11.97 | 12.06 | 12.16 |
| 17 | 12.25 | 12.35 | 12.44 | 12.54 | 12.63 | 12.73 | 12.82 | 12.91 | 13.01 | 13.10 |
| 18 | 13.20 | 13.29 | 13.39 | 13.48 | 13.58 | 13.67 | 13.77 | 13.87 | 13.96 | 14.06 |
| 19 | 14.15 | 14.25 | 14.34 | 14.44 | 14.53 | 14.63 | 14.72 | 14.82 | 14.92 | 15.01 |
| 20 | 15.11 | 15.20 | 15.30 | 15.39 | 15.49 | 15.59 | 15.68 | 15.78 | 15.87 | 15.97 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 16.07 | 16.16 | 16.26 | 16.36 | 16.45 | 16.55 | 16.64 | 16.74 | 16.84 | 16.93 |
| 22 | 17.03 | 17.13 | 17.22 | 17.32 | 17.42 | 17.51 | 17.61 | 17.70 | 17.80 | 17.90 |
| 23 | 17.99 | 18.09 | 18.19 | 18.28 | 18.38 | 18.48 | 18.58 | 18.67 | 18.77 | 18.87 |
| 24 | 18.96 | 19.06 | 19.16 | 19.25 | 19.35 | 19.45 | 19.54 | 19.64 | 19.74 | 19.84 |
| 25 | 19.93 | 20.03 | 20.13 | 20.22 | 20.32 | 20.42 | 20.52 | 20.61 | 20.71 | 20.81 |
| 26 | 20.90 | 21.00 | 21.10 | 21.20 | 21.29 | 21.39 | 21.49 | 21.59 | 21.68 | 21.78 |
| 27 | 21.88 | 21.98 | 22.07 | 22.17 | 22.27 | 22.37 | 22.46 | 22.56 | 22.66 | 22.76 |
| 28 | 22.85 | 22.95 | 23.05 | 23.15 | 23.24 | 23.34 | 23.44 | 23.54 | 23.64 | 23.73 |
| 29 | 23.83 | 23.93 | 24.03 | 24.12 | 24.22 | 24.32 | 24.42 | 24.52 | 24.61 | 24.71 |
| 30 | 24.81 | 24.91 | 25.01 | 25.10 | 25.20 | 25.30 | 25.40 | 25.49 | 25.59 | 25.69 |
| 31 | 25.79 | 25.89 | 25.98 | 26.08 | 26.18 | 26.28 | 26.38 | 26.48 | 26.57 | 26.67 |
| 32 | 26.77 | 26.87 | 26.97 | 27.06 | 27.16 | 27.26 | 27.36 | 27.46 | 27.55 | 27.65 |
| 33 | 27.75 | 27.85 | 27.95 | 28.05 | 28.14 | 28.24 | 28.34 | 28.44 | 28.54 | 28.64 |
| 34 | 28.73 | 28.83 | 28.93 | 29.03 | 29.13 | 29.23 | 29.32 | 29.42 | 29.52 | 29.62 |
| 35 | 29.72 | 29.82 | 29.91 | 30.01 | 30.11 | 30.21 | 30.31 | 30.41 | 30.51 | 30.60 |
| 36 | 30.70 | 30.80 | 30.90 | 31.00 | 31.10 | 31.19 | 31.29 | 31.39 | 31.49 | 31.59 |
| 37 | 31.69 | 31.79 | 31.88 | 31.98 | 32.08 | 32.18 | 32.28 | 32.38 | 32.48 | 32.57 |
| 38 | 32.67 | 32.77 | 32.87 | 32.97 | 33.07 | 33.17 | 33.27 | 33.36 | 33.46 | 33.56 |
| 39 | 33.66 | 33.76 | 33.86 | 33.96 | 34.05 | 34.15 | 34.25 | 34.35 | 34.45 | 34.55 |
| 40 | 34.65 | 34.75 | 34.84 | 34.94 | 35.04 | 35.14 | 35.24 | 35.34 | 35.44 | 35.54 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | |
| 1 | 0.00 | 0.01 | 0.01 | 0.03 | 0.04 | 0.06 | 0.08 | 0.11 | 0.13 | 0.16 |
| 2 | 0.20 | 0.23 | 0.27 | 0.31 | 0.35 | 0.39 | 0.43 | 0.48 | 0.53 | 0.58 |
| 3 | 0.63 | 0.68 | 0.73 | 0.79 | 0.85 | 0.90 | 0.96 | 1.02 | 1.08 | 1.14 |
| 4 | 1.21 | 1.27 | 1.34 | 1.40 | 1.47 | 1.53 | 1.60 | 1.67 | 1.74 | 1.81 |
| 5 | 1.88 | 1.95 | 2.03 | 2.10 | 2.17 | 2.25 | 2.32 | 2.40 | 2.47 | 2.55 |
| 6 | 2.62 | 2.70 | 2.78 | 2.86 | 2.93 | 3.01 | 3.09 | 3.17 | 3.25 | 3.33 |
| 7 | 3.41 | 3.49 | 3.58 | 3.66 | 3.74 | 3.82 | 3.90 | 3.99 | 4.07 | 4.15 |
| 8 | 4.24 | 4.32 | 4.41 | 4.49 | 4.58 | 4.66 | 4.75 | 4.83 | 4.92 | 5.00 |
| 9 | 5.09 | 5.18 | 5.26 | 5.35 | 5.44 | 5.53 | 5.61 | 5.70 | 5.79 | 5.88 |
| 10 | 5.97 | 6.05 | 6.14 | 6.23 | 6.32 | 6.41 | 6.50 | 6.59 | 6.68 | 6.77 |
| 11 | 6.86 | 6.95 | 7.04 | 7.13 | 7.22 | 7.31 | 7.40 | 7.49 | 7.58 | 7.67 |
| 12 | 7.76 | 7.85 | 7.94 | 8.04 | 8.13 | 8.22 | 8.31 | 8.40 | 8.49 | 8.59 |
| 13 | 8.68 | 8.77 | 8.86 | 8.95 | 9.05 | 9.14 | 9.23 | 9.33 | 9.42 | 9.51 |
| 14 | 9.60 | 9.70 | 9.79 | 9.88 | 9.98 | 10.07 | 10.16 | 10.26 | 10.35 | 10.44 |
| 15 | 10.54 | 10.63 | 10.73 | 10.82 | 10.91 | 11.01 | 11.10 | 11.20 | 11.29 | 11.38 |
| 16 | 11.48 | 11.57 | 11.67 | 11.76 | 11.86 | 11.95 | 12.04 | 12.14 | 12.23 | 12.33 |
| 17 | 12.42 | 12.52 | 12.61 | 12.71 | 12.80 | 12.90 | 12.99 | 13.09 | 13.18 | 13.28 |
| 18 | 13.38 | 13.47 | 13.57 | 13.66 | 13.76 | 13.85 | 13.95 | 14.04 | 14.14 | 14.23 |
| 19 | 14.33 | 14.43 | 14.52 | 14.62 | 14.71 | 14.81 | 14.91 | 15.00 | 15.10 | 15.19 |
| 20 | 15.29 | 15.39 | 15.48 | 15.58 | 15.67 | 15.77 | 15.87 | 15.96 | 16.06 | 16.16 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 16.25 | 16.35 | 16.45 | 16.54 | 16.64 | 16.73 | 16.83 | 16.93 | 17.02 | 17.12 |
| 22 | 17.22 | 17.31 | 17.41 | 17.51 | 17.60 | 17.70 | 17.80 | 17.89 | 17.99 | 18.09 |
| 23 | 18.19 | 18.28 | 18.38 | 18.48 | 18.57 | 18.67 | 18.77 | 18.86 | 18.96 | 19.06 |
| 24 | 19.16 | 19.25 | 19.35 | 19.45 | 19.54 | 19.64 | 19.74 | 19.84 | 19.93 | 20.03 |
| 25 | 20.13 | 20.23 | 20.32 | 20.42 | 20.52 | 20.61 | 20.71 | 20.81 | 20.91 | 21.00 |
| 26 | 21.10 | 21.20 | 21.30 | 21.39 | 21.49 | 21.59 | 21.69 | 21.79 | 21.88 | 21.98 |
| 27 | 22.08 | 22.18 | 22.27 | 22.37 | 22.47 | 22.57 | 22.66 | 22.76 | 22.86 | 22.96 |
| 28 | 23.06 | 23.15 | 23.25 | 23.35 | 23.45 | 23.54 | 23.64 | 23.74 | 23.84 | 23.94 |
| 29 | 24.03 | 24.13 | 24.23 | 24.33 | 24.43 | 24.52 | 24.62 | 24.72 | 24.82 | 24.92 |
| 30 | 25.01 | 25.11 | 25.21 | 25.31 | 25.41 | 25.50 | 25.60 | 25.70 | 25.80 | 25.90 |
| 31 | 26.00 | 26.09 | 26.19 | 26.29 | 26.39 | 26.49 | 26.58 | 26.68 | 26.78 | 26.88 |
| 32 | 26.98 | 27.08 | 27.17 | 27.27 | 27.37 | 27.47 | 27.57 | 27.67 | 27.76 | 27.86 |
| 33 | 27.96 | 28.06 | 28.16 | 28.26 | 28.35 | 28.45 | 28.55 | 28.65 | 28.75 | 28.85 |
| 34 | 28.94 | 29.04 | 29.14 | 29.24 | 29.34 | 29.44 | 29.54 | 29.63 | 29.73 | 29.83 |
| 35 | 29.93 | 30.03 | 30.13 | 30.23 | 30.32 | 30.42 | 30.52 | 30.62 | 30.72 | 30.82 |
| 36 | 30.92 | 31.01 | 31.11 | 31.21 | 31.31 | 31.41 | 31.51 | 31.61 | 31.70 | 31.80 |
| 37 | 31.90 | 32.00 | 32.10 | 32.20 | 32.30 | 32.40 | 32.49 | 32.59 | 32.69 | 32.79 |
| 38 | 32.89 | 32.99 | 33.09 | 33.19 | 33.28 | 33.38 | 33.48 | 33.58 | 33.68 | 33.78 |
| 39 | 33.88 | 33.98 | 34.07 | 34.17 | 34.27 | 34.37 | 34.47 | 34.57 | 34.67 | 34.77 |
| 40 | 34.86 | 34.96 | 35.06 | 35.16 | 35.26 | 35.36 | 35.46 | 35.56 | 35.66 | 35.75 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | 0.00 |
| 1 | 0.00 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.09 | 0.12 | 0.15 | 0.18 |
| 2 | 0.22 | 0.25 | 0.29 | 0.33 | 0.38 | 0.42 | 0.47 | 0.52 | 0.57 | 0.62 |
| 3 | 0.67 | 0.72 | 0.78 | 0.84 | 0.90 | 0.95 | 1.02 | 1.08 | 1.14 | 1.20 |
| 4 | 1.27 | 1.33 | 1.40 | 1.47 | 1.53 | 1.60 | 1.67 | 1.74 | 1.81 | 1.89 |
| 5 | 1.96 | 2.03 | 2.11 | 2.18 | 2.25 | 2.33 | 2.41 | 2.48 | 2.56 | 2.64 |
| 6 | 2.71 | 2.79 | 2.87 | 2.95 | 3.03 | 3.11 | 3.19 | 3.27 | 3.35 | 3.43 |
| 7 | 3.52 | 3.60 | 3.68 | 3.76 | 3.85 | 3.93 | 4.01 | 4.10 | 4.18 | 4.27 |
| 8 | 4.35 | 4.44 | 4.52 | 4.61 | 4.69 | 4.78 | 4.87 | 4.95 | 5.04 | 5.13 |
| 9 | 5.21 | 5.30 | 5.39 | 5.48 | 5.56 | 5.65 | 5.74 | 5.83 | 5.92 | 6.01 |
| 10 | 6.10 | 6.18 | 6.27 | 6.36 | 6.45 | 6.54 | 6.63 | 6.72 | 6.81 | 6.90 |
| 11 | 6.99 | 7.08 | 7.17 | 7.27 | 7.36 | 7.45 | 7.54 | 7.63 | 7.72 | 7.81 |
| 12 | 7.90 | 8.00 | 8.09 | 8.18 | 8.27 | 8.36 | 8.46 | 8.55 | 8.64 | 8.73 |
| 13 | 8.83 | 8.92 | 9.01 | 9.11 | 9.20 | 9.29 | 9.38 | 9.48 | 9.57 | 9.66 |
| 14 | 9.76 | 9.85 | 9.95 | 10.04 | 10.13 | 10.23 | 10.32 | 10.41 | 10.51 | 10.60 |
| 15 | 10.70 | 10.79 | 10.88 | 10.98 | 11.07 | 11.17 | 11.26 | 11.36 | 11.45 | 11.55 |
| 16 | 11.64 | 11.74 | 11.83 | 11.93 | 12.02 | 12.12 | 12.21 | 12.31 | 12.40 | 12.50 |
| 17 | 12.59 | 12.69 | 12.78 | 12.88 | 12.97 | 13.07 | 13.16 | 13.26 | 13.35 | 13.45 |
| 18 | 13.55 | 13.64 | 13.74 | 13.83 | 13.93 | 14.02 | 14.12 | 14.22 | 14.31 | 14.41 |
| 19 | 14.50 | 14.60 | 14.70 | 14.79 | 14.89 | 14.99 | 15.08 | 15.18 | 15.27 | 15.37 |
| 20 | 15.47 | 15.56 | 15.66 | 15.76 | 15.85 | 15.95 | 16.05 | 16.14 | 16.24 | 16.34 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 16.43 | 16.53 | 16.63 | 16.72 | 16.82 | 16.92 | 17.01 | 17.11 | 17.21 | 17.30 |
| 22 | 17.40 | 17.50 | 17.59 | 17.69 | 17.79 | 17.88 | 17.98 | 18.08 | 18.18 | 18.27 |
| 23 | 18.37 | 18.47 | 18.56 | 18.66 | 18.76 | 18.86 | 18.95 | 19.05 | 19.15 | 19.25 |
| 24 | 19.34 | 19.44 | 19.54 | 19.63 | 19.73 | 19.83 | 19.93 | 20.02 | 20.12 | 20.22 |
| 25 | 20.32 | 20.41 | 20.51 | 20.61 | 20.71 | 20.80 | 20.90 | 21.00 | 21.10 | 21.20 |
| 26 | 21.29 | 21.39 | 21.49 | 21.59 | 21.68 | 21.78 | 21.88 | 21.98 | 22.08 | 22.17 |
| 27 | 22.27 | 22.37 | 22.47 | 22.56 | 22.66 | 22.76 | 22.86 | 22.96 | 23.05 | 23.15 |
| 28 | 23.25 | 23.35 | 23.45 | 23.54 | 23.64 | 23.74 | 23.84 | 23.94 | 24.03 | 24.13 |
| 29 | 24.23 | 24.33 | 24.43 | 24.52 | 24.62 | 24.72 | 24.82 | 24.92 | 25.02 | 25.11 |
| 30 | 25.21 | 25.31 | 25.41 | 25.51 | 25.61 | 25.70 | 25.80 | 25.90 | 26.00 | 26.10 |
| 31 | 26.19 | 26.29 | 26.39 | 26.49 | 26.59 | 26.69 | 26.78 | 26.88 | 26.98 | 27.08 |
| 32 | 27.18 | 27.28 | 27.38 | 27.47 | 27.57 | 27.67 | 27.77 | 27.87 | 27.97 | 28.06 |
| 33 | 28.16 | 28.26 | 28.36 | 28.46 | 28.56 | 28.66 | 28.75 | 28.85 | 28.95 | 29.05 |
| 34 | 29.15 | 29.25 | 29.35 | 29.44 | 29.54 | 29.64 | 29.74 | 29.84 | 29.94 | 30.04 |
| 35 | 30.13 | 30.23 | 30.33 | 30.43 | 30.53 | 30.63 | 30.73 | 30.83 | 30.92 | 31.02 |
| 36 | 31.12 | 31.22 | 31.32 | 31.42 | 31.52 | 31.61 | 31.71 | 31.81 | 31.91 | 32.01 |
| 37 | 32.11 | 32.21 | 32.31 | 32.40 | 32.50 | 32.60 | 32.70 | 32.80 | 32.90 | 33.00 |
| 38 | 33.10 | 33.20 | 33.29 | 33.39 | 33.49 | 33.59 | 33.69 | 33.79 | 33.89 | 33.99 |
| 39 | 34.09 | 34.18 | 34.28 | 34.38 | 34.48 | 34.58 | 34.68 | 34.78 | 34.88 | 34.98 |
| 40 | 35.07 | 35.17 | 35.27 | 35.37 | 35.47 | 35.57 | 35.67 | 35.77 | 35.87 | 35.97 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | 0.00 |
| 1 | 0.00 | 0.01 | 0.03 | 0.04 | 0.06 | 0.08 | 0.11 | 0.14 | 0.17 | 0.20 |
| 2 | 0.24 | 0.28 | 0.32 | 0.36 | 0.41 | 0.46 | 0.50 | 0.56 | 0.61 | 0.66 |
| 3 | 0.72 | 0.77 | 0.83 | 0.89 | 0.95 | 1.01 | 1.07 | 1.14 | 1.20 | 1.27 |
| 4 | 1.33 | 1.40 | 1.47 | 1.54 | 1.61 | 1.68 | 1.75 | 1.82 | 1.89 | 1.96 |
| 5 | 2.04 | 2.11 | 2.19 | 2.26 | 2.34 | 2.42 | 2.49 | 2.57 | 2.65 | 2.73 |
| 6 | 2.81 | 2.89 | 2.97 | 3.05 | 3.13 | 3.21 | 3.29 | 3.37 | 3.46 | 3.54 |
| 7 | 3.62 | 3.70 | 3.79 | 3.87 | 3.96 | 4.04 | 4.13 | 4.21 | 4.30 | 4.38 |
| 8 | 4.47 | 4.55 | 4.64 | 4.73 | 4.81 | 4.90 | 4.99 | 5.07 | 5.16 | 5.25 |
| 9 | 5.34 | 5.43 | 5.52 | 5.60 | 5.69 | 5.78 | 5.87 | 5.96 | 6.05 | 6.14 |
| 10 | 6.23 | 6.32 | 6.41 | 6.50 | 6.59 | 6.68 | 6.77 | 6.86 | 6.95 | 7.04 |
| 11 | 7.13 | 7.23 | 7.32 | 7.41 | 7.50 | 7.59 | 7.68 | 7.78 | 7.87 | 7.96 |
| 12 | 8.05 | 8.14 | 8.24 | 8.33 | 8.42 | 8.51 | 8.61 | 8.70 | 8.79 | 8.89 |
| 13 | 8.98 | 9.07 | 9.17 | 9.26 | 9.35 | 9.45 | 9.54 | 9.63 | 9.73 | 9.82 |
| 14 | 9.92 | 10.01 | 10.10 | 10.20 | 10.29 | 10.39 | 10.48 | 10.57 | 10.67 | 10.76 |
| 15 | 10.86 | 10.95 | 11.05 | 11.14 | 11.24 | 11.33 | 11.43 | 11.52 | 11.62 | 11.71 |
| 16 | 11.81 | 11.90 | 12.00 | 12.09 | 12.19 | 12.28 | 12.38 | 12.47 | 12.57 | 12.67 |
| 17 | 12.76 | 12.86 | 12.95 | 13.05 | 13.14 | 13.24 | 13.34 | 13.43 | 13.53 | 13.62 |
| 18 | 13.72 | 13.82 | 13.91 | 14.01 | 14.10 | 14.20 | 14.30 | 14.39 | 14.49 | 14.58 |
| 19 | 14.68 | 14.78 | 14.87 | 14.97 | 15.07 | 15.16 | 15.26 | 15.36 | 15.45 | 15.55 |
| 20 | 15.65 | 15.74 | 15.84 | 15.94 | 16.03 | 16.13 | 16.23 | 16.32 | 16.42 | 16.52 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 16.61 | 16.71 | 16.81 | 16.90 | 17.00 | 17.10 | 17.20 | 17.29 | 17.39 | 17.49 |
| 22 | 17.58 | 17.68 | 17.78 | 17.88 | 17.97 | 18.07 | 18.17 | 18.27 | 18.36 | 18.46 |
| 23 | 18.56 | 18.65 | 18.75 | 18.85 | 18.95 | 19.04 | 19.14 | 19.24 | 19.34 | 19.43 |
| 24 | 19.53 | 19.63 | 19.73 | 19.82 | 19.92 | 20.02 | 20.12 | 20.22 | 20.31 | 20.41 |
| 25 | 20.51 | 20.61 | 20.70 | 20.80 | 20.90 | 21.00 | 21.10 | 21.19 | 21.29 | 21.39 |
| 26 | 21.49 | 21.58 | 21.68 | 21.78 | 21.88 | 21.98 | 22.07 | 22.17 | 22.27 | 22.37 |
| 27 | 22.47 | 22.56 | 22.66 | 22.76 | 22.86 | 22.96 | 23.05 | 23.15 | 23.25 | 23.35 |
| 28 | 23.45 | 23.55 | 23.64 | 23.74 | 23.84 | 23.94 | 24.04 | 24.13 | 24.23 | 24.33 |
| 29 | 24.43 | 24.53 | 24.63 | 24.72 | 24.82 | 24.92 | 25.02 | 25.12 | 25.22 | 25.31 |
| 30 | 25.41 | 25.51 | 25.61 | 25.71 | 25.81 | 25.90 | 26.00 | 26.10 | 26.20 | 26.30 |
| 31 | 26.40 | 26.49 | 26.59 | 26.69 | 26.79 | 26.89 | 26.99 | 27.09 | 27.18 | 27.28 |
| 32 | 27.38 | 27.48 | 27.58 | 27.68 | 27.78 | 27.87 | 27.97 | 28.07 | 28.17 | 28.27 |
| 33 | 28.37 | 28.47 | 28.56 | 28.66 | 28.76 | 28.86 | 28.96 | 29.06 | 29.16 | 29.25 |
| 34 | 29.35 | 29.45 | 29.55 | 29.65 | 29.75 | 29.85 | 29.95 | 30.04 | 30.14 | 30.24 |
| 35 | 30.34 | 30.44 | 30.54 | 30.64 | 30.74 | 30.83 | 30.93 | 31.03 | 31.13 | 31.23 |
| 36 | 31.33 | 31.43 | 31.53 | 31.63 | 31.72 | 31.82 | 31.92 | 32.02 | 32.12 | 32.22 |
| 37 | 32.32 | 32.42 | 32.51 | 32.61 | 32.71 | 32.81 | 32.91 | 33.01 | 33.11 | 33.21 |
| 38 | 33.31 | 33.41 | 33.50 | 33.60 | 33.70 | 33.80 | 33.90 | 34.00 | 34.10 | 34.20 |
| 39 | 34.30 | 34.39 | 34.49 | 34.59 | 34.69 | 34.79 | 34.89 | 34.99 | 35.09 | 35.19 |
| 40 | 35.29 | 35.38 | 35.48 | 35.58 | 35.68 | 35.78 | 35.88 | 35.98 | 36.08 | 36.18 |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | | 0.00 |
| 1 | 0.01 | 0.02 | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.16 | 0.19 | 0.23 |
| 2 | 0.27 | 0.31 | 0.35 | 0.40 | 0.44 | 0.49 | 0.54 | 0.60 | 0.65 | 0.70 |
| 3 | 0.76 | 0.82 | 0.88 | 0.94 | 1.00 | 1.07 | 1.13 | 1.19 | 1.26 | 1.33 |
| 4 | 1.40 | 1.46 | 1.53 | 1.60 | 1.68 | 1.75 | 1.82 | 1.89 | 1.97 | 2.04 |
| 5 | 2.12 | 2.19 | 2.27 | 2.35 | 2.43 | 2.50 | 2.58 | 2.66 | 2.74 | 2.82 |
| 6 | 2.90 | 2.98 | 3.06 | 3.14 | 3.23 | 3.31 | 3.39 | 3.47 | 3.56 | 3.64 |
| 7 | 3.73 | 3.81 | 3.89 | 3.98 | 4.06 | 4.15 | 4.24 | 4.32 | 4.41 | 4.50 |
| 8 | 4.58 | 4.67 | 4.76 | 4.84 | 4.93 | 5.02 | 5.11 | 5.20 | 5.28 | 5.37 |
| 9 | 5.46 | 5.55 | 5.64 | 5.73 | 5.82 | 5.91 | 6.00 | 6.09 | 6.18 | 6.27 |
| 10 | 6.36 | 6.45 | 6.54 | 6.63 | 6.72 | 6.81 | 6.90 | 7.00 | 7.09 | 7.18 |
| 11 | 7.27 | 7.36 | 7.45 | 7.55 | 7.64 | 7.73 | 7.82 | 7.92 | 8.01 | 8.10 |
| 12 | 8.19 | 8.29 | 8.38 | 8.47 | 8.57 | 8.66 | 8.75 | 8.85 | 8.94 | 9.03 |
| 13 | 9.13 | 9.22 | 9.32 | 9.41 | 9.50 | 9.60 | 9.69 | 9.79 | 9.88 | 9.97 |
| 14 | 10.07 | 10.16 | 10.26 | 10.35 | 10.45 | 10.54 | 10.64 | 10.73 | 10.83 | 10.92 |
| 15 | 11.02 | 11.11 | 11.21 | 11.30 | 11.40 | 11.49 | 11.59 | 11.68 | 11.78 | 11.87 |
| 16 | 11.97 | 12.06 | 12.16 | 12.25 | 12.35 | 12.45 | 12.54 | 12.64 | 12.73 | 12.83 |
| 17 | 12.93 | 13.02 | 13.12 | 13.21 | 13.31 | 13.41 | 13.50 | 13.60 | 13.69 | 13.79 |
| 18 | 13.89 | 13.98 | 14.08 | 14.18 | 14.27 | 14.37 | 14.47 | 14.56 | 14.66 | 14.76 |
| 19 | 14.85 | 14.95 | 15.05 | 15.14 | 15.24 | 15.34 | 15.43 | 15.53 | 15.63 | 15.72 |
| 20 | 15.82 | 15.92 | 16.01 | 16.11 | 16.21 | 16.30 | 16.40 | 16.50 | 16.60 | 16.69 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 16.79 | 16.89 | 16.98 | 17.08 | 17.18 | 17.28 | 17.37 | 17.47 | 17.57 | 17.67 |
| 22 | 17.76 | 17.86 | 17.96 | 18.06 | 18.15 | 18.25 | 18.35 | 18.45 | 18.54 | 18.64 |
| 23 | 18.74 | 18.84 | 18.93 | 19.03 | 19.13 | 19.23 | 19.32 | 19.42 | 19.52 | 19.62 |
| 24 | 19.71 | 19.81 | 19.91 | 20.01 | 20.11 | 20.20 | 20.30 | 20.40 | 20.50 | 20.60 |
| 25 | 20.69 | 20.79 | 20.89 | 20.99 | 21.08 | 21.18 | 21.28 | 21.38 | 21.48 | 21.57 |
| 26 | 21.67 | 21.77 | 21.87 | 21.97 | 22.07 | 22.16 | 22.26 | 22.36 | 22.46 | 22.56 |
| 27 | 22.65 | 22.75 | 22.85 | 22.95 | 23.05 | 23.15 | 23.24 | 23.34 | 23.44 | 23.54 |
| 28 | 23.64 | 23.73 | 23.83 | 23.93 | 24.03 | 24.13 | 24.23 | 24.32 | 24.42 | 24.52 |
| 29 | 24.62 | 24.72 | 24.82 | 24.92 | 25.01 | 25.11 | 25.21 | 25.31 | 25.41 | 25.51 |
| 30 | 25.60 | 25.70 | 25.80 | 25.90 | 26.00 | 26.10 | 26.20 | 26.29 | 26.39 | 26.49 |
| 31 | 26.59 | 26.69 | 26.79 | 26.89 | 26.98 | 27.08 | 27.18 | 27.28 | 27.38 | 27.48 |
| 32 | 27.58 | 27.67 | 27.77 | 27.87 | 27.97 | 28.07 | 28.17 | 28.27 | 28.37 | 28.46 |
| 33 | 28.56 | 28.66 | 28.76 | 28.86 | 28.96 | 29.06 | 29.16 | 29.25 | 29.35 | 29.45 |
| 34 | 29.55 | 29.65 | 29.75 | 29.85 | 29.95 | 30.04 | 30.14 | 30.24 | 30.34 | 30.44 |
| 35 | 30.54 | 30.64 | 30.74 | 30.84 | 30.93 | 31.03 | 31.13 | 31.23 | 31.33 | 31.43 |
| 36 | 31.53 | 31.63 | 31.73 | 31.82 | 31.92 | 32.02 | 32.12 | 32.22 | 32.32 | 32.42 |
| 37 | 32.52 | 32.62 | 32.72 | 32.81 | 32.91 | 33.01 | 33.11 | 33.21 | 33.31 | 33.41 |
| 38 | 33.51 | 33.61 | 33.71 | 33.80 | 33.90 | 34.00 | 34.10 | 34.20 | 34.30 | 34.40 |
| 39 | 34.50 | 34.60 | 34.70 | 34.80 | 34.89 | 34.99 | 35.09 | 35.19 | 35.29 | 35.39 |
| 40 | 35.49 | 35.59 | 35.69 | 35.79 | 35.89 | 35.98 | 36.08 | 36.18 | 36.28 | 36.38 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | 0.00 | 0.00 |
| 1 | 0.01 | 0.02 | 0.04 | 0.06 | 0.09 | 0.11 | 0.14 | 0.18 | 0.21 | 0.25 |
| 2 | 0.29 | 0.34 | 0.38 | 0.43 | 0.48 | 0.53 | 0.58 | 0.64 | 0.69 | 0.75 |
| 3 | 0.81 | 0.87 | 0.93 | 0.99 | 1.06 | 1.12 | 1.19 | 1.25 | 1.32 | 1.39 |
| 4 | 1.46 | 1.53 | 1.60 | 1.67 | 1.75 | 1.82 | 1.89 | 1.97 | 2.04 | 2.12 |
| 5 | 2.20 | 2.27 | 2.35 | 2.43 | 2.51 | 2.59 | 2.67 | 2.75 | 2.83 | 2.91 |
| 6 | 2.99 | 3.07 | 3.16 | 3.24 | 3.32 | 3.41 | 3.49 | 3.57 | 3.66 | 3.74 |
| 7 | 3.83 | 3.91 | 4.00 | 4.09 | 4.17 | 4.26 | 4.34 | 4.43 | 4.52 | 4.61 |
| 8 | 4.69 | 4.78 | 4.87 | 4.96 | 5.05 | 5.14 | 5.22 | 5.31 | 5.40 | 5.49 |
| 9 | 5.58 | 5.67 | 5.76 | 5.85 | 5.94 | 6.03 | 6.12 | 6.21 | 6.30 | 6.39 |
| 10 | 6.49 | 6.58 | 6.67 | 6.76 | 6.85 | 6.94 | 7.04 | 7.13 | 7.22 | 7.31 |
| 11 | 7.40 | 7.50 | 7.59 | 7.68 | 7.77 | 7.87 | 7.96 | 8.05 | 8.15 | 8.24 |
| 12 | 8.33 | 8.43 | 8.52 | 8.61 | 8.71 | 8.80 | 8.90 | 8.99 | 9.08 | 9.18 |
| 13 | 9.27 | 9.37 | 9.46 | 9.55 | 9.65 | 9.74 | 9.84 | 9.93 | 10.03 | 10.12 |
| 14 | 10.22 | 10.31 | 10.41 | 10.50 | 10.60 | 10.69 | 10.79 | 10.88 | 10.98 | 11.07 |
| 15 | 11.17 | 11.26 | 11.36 | 11.45 | 11.55 | 11.65 | 11.74 | 11.84 | 11.93 | 12.03 |
| 16 | 12.12 | 12.22 | 12.32 | 12.41 | 12.51 | 12.60 | 12.70 | 12.80 | 12.89 | 12.99 |
| 17 | 13.08 | 13.18 | 13.28 | 13.37 | 13.47 | 13.57 | 13.66 | 13.76 | 13.86 | 13.95 |
| 18 | 14.05 | 14.15 | 14.24 | 14.34 | 14.44 | 14.53 | 14.63 | 14.73 | 14.82 | 14.92 |
| 19 | 15.02 | 15.11 | 15.21 | 15.31 | 15.40 | 15.50 | 15.60 | 15.70 | 15.79 | 15.89 |
| 20 | 15.99 | 16.08 | 16.18 | 16.28 | 16.38 | 16.47 | 16.57 | 16.67 | 16.76 | 16.86 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 16.96 | 17.06 | 17.15 | 17.25 | 17.35 | 17.45 | 17.54 | 17.64 | 17.74 | 17.84 |
| 22 | 17.93 | 18.03 | 18.13 | 18.23 | 18.33 | 18.42 | 18.52 | 18.62 | 18.72 | 18.81 |
| 23 | 18.91 | 19.01 | 19.11 | 19.20 | 19.30 | 19.40 | 19.50 | 19.60 | 19.69 | 19.79 |
| 24 | 19.89 | 19.99 | 20.09 | 20.18 | 20.28 | 20.38 | 20.48 | 20.58 | 20.67 | 20.77 |
| 25 | 20.87 | 20.97 | 21.07 | 21.16 | 21.26 | 21.36 | 21.46 | 21.56 | 21.66 | 21.75 |
| 26 | 21.85 | 21.95 | 22.05 | 22.15 | 22.24 | 22.34 | 22.44 | 22.54 | 22.64 | 22.74 |
| 27 | 22.83 | 22.93 | 23.03 | 23.13 | 23.23 | 23.33 | 23.42 | 23.52 | 23.62 | 23.72 |
| 28 | 23.82 | 23.92 | 24.02 | 24.11 | 24.21 | 24.31 | 24.41 | 24.51 | 24.61 | 24.70 |
| 29 | 24.80 | 24.90 | 25.00 | 25.10 | 25.20 | 25.30 | 25.39 | 25.49 | 25.59 | 25.69 |
| 30 | 25.79 | 25.89 | 25.99 | 26.08 | 26.18 | 26.28 | 26.38 | 26.48 | 26.58 | 26.68 |
| 31 | 26.78 | 26.87 | 26.97 | 27.07 | 27.17 | 27.27 | 27.37 | 27.47 | 27.57 | 27.66 |
| 32 | 27.76 | 27.86 | 27.96 | 28.06 | 28.16 | 28.26 | 28.36 | 28.45 | 28.55 | 28.65 |
| 33 | 28.75 | 28.85 | 28.95 | 29.05 | 29.15 | 29.25 | 29.34 | 29.44 | 29.54 | 29.64 |
| 34 | 29.74 | 29.84 | 29.94 | 30.04 | 30.14 | 30.23 | 30.33 | 30.43 | 30.53 | 30.63 |
| 35 | 30.73 | 30.83 | 30.93 | 31.03 | 31.12 | 31.22 | 31.32 | 31.42 | 31.52 | 31.62 |
| 36 | 31.72 | 31.82 | 31.92 | 32.02 | 32.11 | 32.21 | 32.31 | 32.41 | 32.51 | 32.61 |
| 37 | 32.71 | 32.81 | 32.91 | 33.01 | 33.11 | 33.20 | 33.30 | 33.40 | 33.50 | 33.60 |
| 38 | 33.70 | 33.80 | 33.90 | 34.00 | 34.10 | 34.20 | 34.29 | 34.39 | 34.49 | 34.59 |
| 39 | 34.69 | 34.79 | 34.89 | 34.99 | 35.09 | 35.19 | 35.29 | 35.39 | 35.48 | 35.58 |
| 40 | 35.68 | 35.78 | 35.88 | 35.98 | 36.08 | 36.18 | 36.28 | 36.38 | 36.48 | 36.58 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | 0.00 | 0.01 |
| 1 | 0.02 | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.16 | 0.20 | 0.24 | 0.28 |
| 2 | 0.32 | 0.37 | 0.41 | 0.46 | 0.51 | 0.57 | 0.62 | 0.68 | 0.74 | 0.80 |
| 3 | 0.86 | 0.92 | 0.98 | 1.05 | 1.11 | 1.18 | 1.25 | 1.32 | 1.39 | 1.46 |
| 4 | 1.53 | 1.60 | 1.67 | 1.75 | 1.82 | 1.90 | 1.97 | 2.05 | 2.12 | 2.20 |
| 5 | 2.28 | 2.36 | 2.44 | 2.52 | 2.60 | 2.68 | 2.76 | 2.84 | 2.92 | 3.01 |
| 6 | 3.09 | 3.17 | 3.25 | 3.34 | 3.42 | 3.51 | 3.59 | 3.68 | 3.76 | 3.85 |
| 7 | 3.93 | 4.02 | 4.11 | 4.19 | 4.28 | 4.37 | 4.46 | 4.54 | 4.63 | 4.72 |
| 8 | 4.81 | 4.90 | 4.99 | 5.08 | 5.17 | 5.25 | 5.34 | 5.43 | 5.52 | 5.61 |
| 9 | 5.70 | 5.80 | 5.89 | 5.98 | 6.07 | 6.16 | 6.25 | 6.34 | 6.43 | 6.52 |
| 10 | 6.62 | 6.71 | 6.80 | 6.89 | 6.98 | 7.08 | 7.17 | 7.26 | 7.35 | 7.45 |
| 11 | 7.54 | 7.63 | 7.73 | 7.82 | 7.91 | 8.01 | 8.10 | 8.19 | 8.29 | 8.38 |
| 12 | 8.48 | 8.57 | 8.66 | 8.76 | 8.85 | 8.95 | 9.04 | 9.13 | 9.23 | 9.32 |
| 13 | 9.42 | 9.51 | 9.61 | 9.70 | 9.80 | 9.89 | 9.99 | 10.08 | 10.18 | 10.27 |
| 14 | 10.37 | 10.46 | 10.56 | 10.65 | 10.75 | 10.84 | 10.94 | 11.04 | 11.13 | 11.23 |
| 15 | 11.32 | 11.42 | 11.51 | 11.61 | 11.71 | 11.80 | 11.90 | 11.99 | 12.09 | 12.19 |
| 16 | 12.28 | 12.38 | 12.47 | 12.57 | 12.67 | 12.76 | 12.86 | 12.96 | 13.05 | 13.15 |
| 17 | 13.25 | 13.34 | 13.44 | 13.54 | 13.63 | 13.73 | 13.83 | 13.92 | 14.02 | 14.12 |
| 18 | 14.21 | 14.31 | 14.41 | 14.50 | 14.60 | 14.70 | 14.79 | 14.89 | 14.99 | 15.09 |
| 19 | 15.18 | 15.28 | 15.38 | 15.47 | 15.57 | 15.67 | 15.77 | 15.86 | 15.96 | 16.06 |
| 20 | 16.16 | 16.25 | 16.35 | 16.45 | 16.55 | 16.64 | 16.74 | 16.84 | 16.94 | 17.03 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 17.13 | 17.23 | 17.33 | 17.42 | 17.52 | 17.62 | 17.72 | 17.82 | 17.91 | 18.01 |
| 22 | 18.11 | 18.21 | 18.30 | 18.40 | 18.50 | 18.60 | 18.70 | 18.79 | 18.89 | 18.99 |
| 23 | 19.09 | 19.19 | 19.28 | 19.38 | 19.48 | 19.58 | 19.68 | 19.77 | 19.87 | 19.97 |
| 24 | 20.07 | 20.17 | 20.26 | 20.36 | 20.46 | 20.56 | 20.66 | 20.75 | 20.85 | 20.95 |
| 25 | 21.05 | 21.15 | 21.25 | 21.34 | 21.44 | 21.54 | 21.64 | 21.74 | 21.84 | 21.93 |
| 26 | 22.03 | 22.13 | 22.23 | 22.33 | 22.43 | 22.52 | 22.62 | 22.72 | 22.82 | 22.92 |
| 27 | 23.02 | 23.12 | 23.21 | 23.31 | 23.41 | 23.51 | 23.61 | 23.71 | 23.81 | 23.90 |
| 28 | 24.00 | 24.10 | 24.20 | 24.30 | 24.40 | 24.50 | 24.59 | 24.69 | 24.79 | 24.89 |
| 29 | 24.99 | 25.09 | 25.19 | 25.28 | 25.38 | 25.48 | 25.58 | 25.68 | 25.78 | 25.88 |
| 30 | 25.98 | 26.07 | 26.17 | 26.27 | 26.37 | 26.47 | 26.57 | 26.67 | 26.77 | 26.86 |
| 31 | 26.96 | 27.06 | 27.16 | 27.26 | 27.36 | 27.46 | 27.56 | 27.65 | 27.75 | 27.85 |
| 32 | 27.95 | 28.05 | 28.15 | 28.25 | 28.35 | 28.45 | 28.54 | 28.64 | 28.74 | 28.84 |
| 33 | 28.94 | 29.04 | 29.14 | 29.24 | 29.34 | 29.44 | 29.53 | 29.63 | 29.73 | 29.83 |
| 34 | 29.93 | 30.03 | 30.13 | 30.23 | 30.33 | 30.43 | 30.52 | 30.62 | 30.72 | 30.82 |
| 35 | 30.92 | 31.02 | 31.12 | 31.22 | 31.32 | 31.42 | 31.52 | 31.61 | 31.71 | 31.81 |
| 36 | 31.91 | 32.01 | 32.11 | 32.21 | 32.31 | 32.41 | 32.51 | 32.61 | 32.70 | 32.80 |
| 37 | 32.90 | 33.00 | 33.10 | 33.20 | 33.30 | 33.40 | 33.50 | 33.60 | 33.70 | 33.80 |
| 38 | 33.89 | 33.99 | 34.09 | 34.19 | 34.29 | 34.39 | 34.49 | 34.59 | 34.69 | 34.79 |
| 39 | 34.89 | 34.99 | 35.08 | 35.18 | 35.28 | 35.38 | 35.48 | 35.58 | 35.68 | 35.78 |
| 40 | 35.88 | 35.98 | 36.08 | 36.18 | 36.28 | 36.37 | 36.47 | 36.57 | 36.67 | 36.77 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | | 0.00 | 0.01 |
| 1 | 0.02 | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.18 | 0.22 | 0.26 | 0.30 |
| 2 | 0.35 | 0.40 | 0.45 | 0.50 | 0.55 | 0.61 | 0.67 | 0.72 | 0.78 | 0.85 |
| 3 | 0.91 | 0.97 | 1.04 | 1.11 | 1.17 | 1.24 | 1.31 | 1.38 | 1.45 | 1.52 |
| 4 | 1.60 | 1.67 | 1.75 | 1.82 | 1.90 | 1.97 | 2.05 | 2.13 | 2.21 | 2.29 |
| 5 | 2.37 | 2.45 | 2.53 | 2.61 | 2.69 | 2.77 | 2.85 | 2.94 | 3.02 | 3.10 |
| 6 | 3.19 | 3.27 | 3.36 | 3.44 | 3.53 | 3.61 | 3.70 | 3.78 | 3.87 | 3.96 |
| 7 | 4.04 | 4.13 | 4.22 | 4.31 | 4.39 | 4.48 | 4.57 | 4.66 | 4.75 | 4.84 |
| 8 | 4.93 | 5.02 | 5.11 | 5.20 | 5.29 | 5.38 | 5.47 | 5.56 | 5.65 | 5.74 |
| 9 | 5.83 | 5.92 | 6.01 | 6.11 | 6.20 | 6.29 | 6.38 | 6.47 | 6.57 | 6.66 |
| 10 | 6.75 | 6.84 | 6.94 | 7.03 | 7.12 | 7.21 | 7.31 | 7.40 | 7.49 | 7.59 |
| 11 | 7.68 | 7.77 | 7.87 | 7.96 | 8.06 | 8.15 | 8.24 | 8.34 | 8.43 | 8.53 |
| 12 | 8.62 | 8.71 | 8.81 | 8.90 | 9.00 | 9.09 | 9.19 | 9.28 | 9.38 | 9.47 |
| 13 | 9.57 | 9.66 | 9.76 | 9.85 | 9.95 | 10.04 | 10.14 | 10.23 | 10.33 | 10.43 |
| 14 | 10.52 | 10.62 | 10.71 | 10.81 | 10.90 | 11.00 | 11.10 | 11.19 | 11.29 | 11.38 |
| 15 | 11.48 | 11.58 | 11.67 | 11.77 | 11.86 | 11.96 | 12.06 | 12.15 | 12.25 | 12.35 |
| 16 | 12.44 | 12.54 | 12.64 | 12.73 | 12.83 | 12.93 | 13.02 | 13.12 | 13.22 | 13.31 |
| 17 | 13.41 | 13.51 | 13.60 | 13.70 | 13.80 | 13.89 | 13.99 | 14.09 | 14.19 | 14.28 |
| 18 | 14.38 | 14.48 | 14.57 | 14.67 | 14.77 | 14.87 | 14.96 | 15.06 | 15.16 | 15.26 |
| 19 | 15.35 | 15.45 | 15.55 | 15.65 | 15.74 | 15.84 | 15.94 | 16.04 | 16.13 | 16.23 |
| 20 | 16.33 | 16.43 | 16.52 | 16.62 | 16.72 | 16.82 | 16.91 | 17.01 | 17.11 | 17.21 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 17.31 | 17.40 | 17.50 | 17.60 | 17.70 | 17.79 | 17.89 | 17.99 | 18.09 | 18.19 |
| 22 | 18.28 | 18.38 | 18.48 | 18.58 | 18.68 | 18.77 | 18.87 | 18.97 | 19.07 | 19.17 |
| 23 | 19.27 | 19.36 | 19.46 | 19.56 | 19.66 | 19.76 | 19.85 | 19.95 | 20.05 | 20.15 |
| 24 | 20.25 | 20.35 | 20.44 | 20.54 | 20.64 | 20.74 | 20.84 | 20.94 | 21.03 | 21.13 |
| 25 | 21.23 | 21.33 | 21.43 | 21.53 | 21.62 | 21.72 | 21.82 | 21.92 | 22.02 | 22.12 |
| 26 | 22.22 | 22.31 | 22.41 | 22.51 | 22.61 | 22.71 | 22.81 | 22.91 | 23.00 | 23.10 |
| 27 | 23.20 | 23.30 | 23.40 | 23.50 | 23.60 | 23.69 | 23.79 | 23.89 | 23.99 | 24.09 |
| 28 | 24.19 | 24.29 | 24.39 | 24.48 | 24.58 | 24.68 | 24.78 | 24.88 | 24.98 | 25.08 |
| 29 | 25.18 | 25.27 | 25.37 | 25.47 | 25.57 | 25.67 | 25.77 | 25.87 | 25.97 | 26.06 |
| 30 | 26.16 | 26.26 | 26.36 | 26.46 | 26.56 | 26.66 | 26.76 | 26.86 | 26.95 | 27.05 |
| 31 | 27.15 | 27.25 | 27.35 | 27.45 | 27.55 | 27.65 | 27.75 | 27.84 | 27.94 | 28.04 |
| 32 | 28.14 | 28.24 | 28.34 | 28.44 | 28.54 | 28.64 | 28.74 | 28.83 | 28.93 | 29.03 |
| 33 | 29.13 | 29.23 | 29.33 | 29.43 | 29.53 | 29.63 | 29.73 | 29.83 | 29.92 | 30.02 |
| 34 | 30.12 | 30.22 | 30.32 | 30.42 | 30.52 | 30.62 | 30.72 | 30.82 | 30.92 | 31.01 |
| 35 | 31.11 | 31.21 | 31.31 | 31.41 | 31.51 | 31.61 | 31.71 | 31.81 | 31.91 | 32.01 |
| 36 | 32.11 | 32.20 | 32.30 | 32.40 | 32.50 | 32.60 | 32.70 | 32.80 | 32.90 | 33.00 |
| 37 | 33.10 | 33.20 | 33.30 | 33.40 | 33.49 | 33.59 | 33.69 | 33.79 | 33.89 | 33.99 |
| 38 | 34.09 | 34.19 | 34.29 | 34.39 | 34.49 | 34.59 | 34.69 | 34.78 | 34.88 | 34.98 |
| 39 | 35.08 | 35.18 | 35.28 | 35.38 | 35.48 | 35.58 | 35.68 | 35.78 | 35.88 | 35.98 |
| 40 | 36.08 | 36.18 | 36.27 | 36.37 | 36.47 | 36.57 | 36.67 | 36.77 | 36.87 | 36.97 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | 0.00 | 0.01 | 0.02 |
| 1 | 0.03 | 0.05 | 0.07 | 0.10 | 0.13 | 0.17 | 0.20 | 0.24 | 0.29 | 0.33 |
| 2 | 0.38 | 0.43 | 0.48 | 0.54 | 0.59 | 0.65 | 0.71 | 0.77 | 0.83 | 0.90 |
| 3 | 0.96 | 1.03 | 1.10 | 1.16 | 1.23 | 1.30 | 1.37 | 1.45 | 1.52 | 1.59 |
| 4 | 1.67 | 1.74 | 1.82 | 1.90 | 1.97 | 2.05 | 2.13 | 2.21 | 2.29 | 2.37 |
| 5 | 2.45 | 2.53 | 2.61 | 2.70 | 2.78 | 2.86 | 2.95 | 3.03 | 3.11 | 3.20 |
| 6 | 3.28 | 3.37 | 3.46 | 3.54 | 3.63 | 3.71 | 3.80 | 3.89 | 3.98 | 4.06 |
| 7 | 4.15 | 4.24 | 4.33 | 4.42 | 4.51 | 4.59 | 4.68 | 4.77 | 4.86 | 4.95 |
| 8 | 5.04 | 5.13 | 5.22 | 5.32 | 5.41 | 5.50 | 5.59 | 5.68 | 5.77 | 5.86 |
| 9 | 5.95 | 6.05 | 6.14 | 6.23 | 6.32 | 6.42 | 6.51 | 6.60 | 6.69 | 6.79 |
| 10 | 6.88 | 6.97 | 7.07 | 7.16 | 7.25 | 7.35 | 7.44 | 7.53 | 7.63 | 7.72 |
| 11 | 7.82 | 7.91 | 8.00 | 8.10 | 8.19 | 8.29 | 8.38 | 8.48 | 8.57 | 8.67 |
| 12 | 8.76 | 8.86 | 8.95 | 9.05 | 9.14 | 9.24 | 9.33 | 9.43 | 9.52 | 9.62 |
| 13 | 9.71 | 9.81 | 9.90 | 10.00 | 10.09 | 10.19 | 10.29 | 10.38 | 10.48 | 10.57 |
| 14 | 10.67 | 10.77 | 10.86 | 10.96 | 11.05 | 11.15 | 11.25 | 11.34 | 11.44 | 11.54 |
| 15 | 11.63 | 11.73 | 11.82 | 11.92 | 12.02 | 12.11 | 12.21 | 12.31 | 12.40 | 12.50 |
| 16 | 12.60 | 12.69 | 12.79 | 12.89 | 12.99 | 13.08 | 13.18 | 13.28 | 13.37 | 13.47 |
| 17 | 13.57 | 13.67 | 13.76 | 13.86 | 13.96 | 14.05 | 14.15 | 14.25 | 14.35 | 14.44 |
| 18 | 14.54 | 14.64 | 14.74 | 14.83 | 14.93 | 15.03 | 15.13 | 15.22 | 15.32 | 15.42 |
| 19 | 15.52 | 15.61 | 15.71 | 15.81 | 15.91 | 16.00 | 16.10 | 16.20 | 16.30 | 16.40 |
| 20 | 16.49 | 16.59 | 16.69 | 16.79 | 16.88 | 16.98 | 17.08 | 17.18 | 17.28 | 17.37 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 17.47 | 17.57 | 17.67 | 17.77 | 17.86 | 17.96 | 18.06 | 18.16 | 18.26 | 18.36 |
| 22 | 18.45 | 18.55 | 18.65 | 18.75 | 18.85 | 18.94 | 19.04 | 19.14 | 19.24 | 19.34 |
| 23 | 19.44 | 19.53 | 19.63 | 19.73 | 19.83 | 19.93 | 20.03 | 20.12 | 20.22 | 20.32 |
| 24 | 20.42 | 20.52 | 20.62 | 20.72 | 20.81 | 20.91 | 21.01 | 21.11 | 21.21 | 21.31 |
| 25 | 21.40 | 21.50 | 21.60 | 21.70 | 21.80 | 21.90 | 22.00 | 22.09 | 22.19 | 22.29 |
| 26 | 22.39 | 22.49 | 22.59 | 22.69 | 22.79 | 22.88 | 22.98 | 23.08 | 23.18 | 23.28 |
| 27 | 23.38 | 23.48 | 23.58 | 23.67 | 23.77 | 23.87 | 23.97 | 24.07 | 24.17 | 24.27 |
| 28 | 24.37 | 24.46 | 24.56 | 24.66 | 24.76 | 24.86 | 24.96 | 25.06 | 25.16 | 25.26 |
| 29 | 25.35 | 25.45 | 25.55 | 25.65 | 25.75 | 25.85 | 25.95 | 26.05 | 26.15 | 26.24 |
| 30 | 26.34 | 26.44 | 26.54 | 26.64 | 26.74 | 26.84 | 26.94 | 27.04 | 27.14 | 27.23 |
| 31 | 27.33 | 27.43 | 27.53 | 27.63 | 27.73 | 27.83 | 27.93 | 28.03 | 28.13 | 28.22 |
| 32 | 28.32 | 28.42 | 28.52 | 28.62 | 28.72 | 28.82 | 28.92 | 29.02 | 29.12 | 29.22 |
| 33 | 29.31 | 29.41 | 29.51 | 29.61 | 29.71 | 29.81 | 29.91 | 30.01 | 30.11 | 30.21 |
| 34 | 30.31 | 30.41 | 30.50 | 30.60 | 30.70 | 30.80 | 30.90 | 31.00 | 31.10 | 31.20 |
| 35 | 31.30 | 31.40 | 31.50 | 31.60 | 31.70 | 31.79 | 31.89 | 31.99 | 32.09 | 32.19 |
| 36 | 32.29 | 32.39 | 32.49 | 32.59 | 32.69 | 32.79 | 32.89 | 32.99 | 33.08 | 33.18 |
| 37 | 33.28 | 33.38 | 33.48 | 33.58 | 33.68 | 33.78 | 33.88 | 33.98 | 34.08 | 34.18 |
| 38 | 34.28 | 34.38 | 34.48 | 34.57 | 34.67 | 34.77 | 34.87 | 34.97 | 35.07 | 35.17 |
| 39 | 35.27 | 35.37 | 35.47 | 35.57 | 35.67 | 35.77 | 35.87 | 35.97 | 36.07 | 36.16 |
| 40 | 36.26 | 36.36 | 36.46 | 36.56 | 36.66 | 36.76 | 36.86 | 36.96 | 37.06 | 37.16 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | | 0.00 | 0.01 | 0.02 |
| 1 | 0.04 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.23 | 0.27 | 0.32 | 0.36 |
| 2 | 0.41 | 0.47 | 0.52 | 0.58 | 0.63 | 0.69 | 0.76 | 0.82 | 0.88 | 0.95 |
| 3 | 1.01 | 1.08 | 1.15 | 1.22 | 1.29 | 1.36 | 1.44 | 1.51 | 1.59 | 1.66 |
| 4 | 1.74 | 1.81 | 1.89 | 1.97 | 2.05 | 2.13 | 2.21 | 2.29 | 2.37 | 2.45 |
| 5 | 2.53 | 2.62 | 2.70 | 2.78 | 2.87 | 2.95 | 3.04 | 3.12 | 3.21 | 3.29 |
| 6 | 3.38 | 3.47 | 3.55 | 3.64 | 3.73 | 3.81 | 3.90 | 3.99 | 4.08 | 4.17 |
| 7 | 4.26 | 4.35 | 4.43 | 4.52 | 4.61 | 4.70 | 4.79 | 4.88 | 4.97 | 5.07 |
| 8 | 5.16 | 5.25 | 5.34 | 5.43 | 5.52 | 5.61 | 5.71 | 5.80 | 5.89 | 5.98 |
| 9 | 6.07 | 6.17 | 6.26 | 6.35 | 6.45 | 6.54 | 6.63 | 6.72 | 6.82 | 6.91 |
| 10 | 7.01 | 7.10 | 7.19 | 7.29 | 7.38 | 7.47 | 7.57 | 7.66 | 7.76 | 7.85 |
| 11 | 7.95 | 8.04 | 8.14 | 8.23 | 8.32 | 8.42 | 8.51 | 8.61 | 8.70 | 8.80 |
| 12 | 8.90 | 8.99 | 9.09 | 9.18 | 9.28 | 9.37 | 9.47 | 9.56 | 9.66 | 9.76 |
| 13 | 9.85 | 9.95 | 10.04 | 10.14 | 10.23 | 10.33 | 10.43 | 10.52 | 10.62 | 10.72 |
| 14 | 10.81 | 10.91 | 11.00 | 11.10 | 11.20 | 11.29 | 11.39 | 11.49 | 11.58 | 11.68 |
| 15 | 11.78 | 11.87 | 11.97 | 12.07 | 12.16 | 12.26 | 12.36 | 12.46 | 12.55 | 12.65 |
| 16 | 12.75 | 12.84 | 12.94 | 13.04 | 13.14 | 13.23 | 13.33 | 13.43 | 13.52 | 13.62 |
| 17 | 13.72 | 13.82 | 13.91 | 14.01 | 14.11 | 14.21 | 14.30 | 14.40 | 14.50 | 14.60 |
| 18 | 14.69 | 14.79 | 14.89 | 14.99 | 15.09 | 15.18 | 15.28 | 15.38 | 15.48 | 15.57 |
| 19 | 15.67 | 15.77 | 15.87 | 15.97 | 16.06 | 16.16 | 16.26 | 16.36 | 16.46 | 16.55 |
| 20 | 16.65 | 16.75 | 16.85 | 16.95 | 17.04 | 17.14 | 17.24 | 17.34 | 17.44 | 17.53 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

CURVE
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RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | | | | | | | |
| 21 | 17.63 | 17.73 | 17.83 | 17.93 | 18.03 | 18.12 | 18.22 | 18.32 | 18.42 | 18.52 |
| 22 | 18.62 | 18.71 | 18.81 | 18.91 | 19.01 | 19.11 | 19.21 | 19.30 | 19.40 | 19.50 |
| 23 | 19.60 | 19.70 | 19.80 | 19.89 | 19.99 | 20.09 | 20.19 | 20.29 | 20.39 | 20.49 |
| 24 | 20.58 | 20.68 | 20.78 | 20.88 | 20.98 | 21.08 | 21.18 | 21.27 | 21.37 | 21.47 |
| 25 | 21.57 | 21.67 | 21.77 | 21.87 | 21.97 | 22.06 | 22.16 | 22.26 | 22.36 | 22.46 |
| 26 | 22.56 | 22.66 | 22.76 | 22.85 | 22.95 | 23.05 | 23.15 | 23.25 | 23.35 | 23.45 |
| 27 | 23.55 | 23.65 | 23.74 | 23.84 | 23.94 | 24.04 | 24.14 | 24.24 | 24.34 | 24.44 |
| 28 | 24.54 | 24.63 | 24.73 | 24.83 | 24.93 | 25.03 | 25.13 | 25.23 | 25.33 | 25.43 |
| 29 | 25.52 | 25.62 | 25.72 | 25.82 | 25.92 | 26.02 | 26.12 | 26.22 | 26.32 | 26.42 |
| 30 | 26.51 | 26.61 | 26.71 | 26.81 | 26.91 | 27.01 | 27.11 | 27.21 | 27.31 | 27.41 |
| 31 | 27.51 | 27.60 | 27.70 | 27.80 | 27.90 | 28.00 | 28.10 | 28.20 | 28.30 | 28.40 |
| 32 | 28.50 | 28.60 | 28.70 | 28.79 | 28.89 | 28.99 | 29.09 | 29.19 | 29.29 | 29.39 |
| 33 | 29.49 | 29.59 | 29.69 | 29.79 | 29.89 | 29.99 | 30.08 | 30.18 | 30.28 | 30.38 |
| 34 | 30.48 | 30.58 | 30.68 | 30.78 | 30.88 | 30.98 | 31.08 | 31.18 | 31.28 | 31.37 |
| 35 | 31.47 | 31.57 | 31.67 | 31.77 | 31.87 | 31.97 | 32.07 | 32.17 | 32.27 | 32.37 |
| 36 | 32.47 | 32.57 | 32.67 | 32.77 | 32.86 | 32.96 | 33.06 | 33.16 | 33.26 | 33.36 |
| 37 | 33.46 | 33.56 | 33.66 | 33.76 | 33.86 | 33.96 | 34.06 | 34.16 | 34.26 | 34.35 |
| 38 | 34.45 | 34.55 | 34.65 | 34.75 | 34.85 | 34.95 | 35.05 | 35.15 | 35.25 | 35.35 |
| 39 | 35.45 | 35.55 | 35.65 | 35.75 | 35.85 | 35.95 | 36.04 | 36.14 | 36.24 | 36.34 |
| 40 | 36.44 | 36.54 | 36.64 | 36.74 | 36.84 | 36.94 | 37.04 | 37.14 | 37.24 | 37.34 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | 0.00 | 0.00 | 0.01 | 0.03 |
| 1 | 0.05 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.25 | 0.30 | 0.34 | 0.39 |
| 2 | 0.45 | 0.50 | 0.56 | 0.62 | 0.68 | 0.74 | 0.80 | 0.87 | 0.93 | 1.00 |
| 3 | 1.07 | 1.14 | 1.21 | 1.28 | 1.36 | 1.43 | 1.50 | 1.58 | 1.66 | 1.73 |
| 4 | 1.81 | 1.89 | 1.97 | 2.05 | 2.13 | 2.21 | 2.29 | 2.37 | 2.46 | 2.54 |
| 5 | 2.62 | 2.71 | 2.79 | 2.87 | 2.96 | 3.04 | 3.13 | 3.22 | 3.30 | 3.39 |
| 6 | 3.48 | 3.56 | 3.65 | 3.74 | 3.83 | 3.92 | 4.01 | 4.10 | 4.18 | 4.27 |
| 7 | 4.36 | 4.45 | 4.54 | 4.63 | 4.72 | 4.82 | 4.91 | 5.00 | 5.09 | 5.18 |
| 8 | 5.27 | 5.36 | 5.46 | 5.55 | 5.64 | 5.73 | 5.83 | 5.92 | 6.01 | 6.10 |
| 9 | 6.20 | 6.29 | 6.38 | 6.48 | 6.57 | 6.66 | 6.76 | 6.85 | 6.95 | 7.04 |
| 10 | 7.13 | 7.23 | 7.32 | 7.42 | 7.51 | 7.61 | 7.70 | 7.79 | 7.89 | 7.98 |
| 11 | 8.08 | 8.17 | 8.27 | 8.36 | 8.46 | 8.56 | 8.65 | 8.75 | 8.84 | 8.94 |
| 12 | 9.03 | 9.13 | 9.22 | 9.32 | 9.42 | 9.51 | 9.61 | 9.70 | 9.80 | 9.90 |
| 13 | 9.99 | 10.09 | 10.19 | 10.28 | 10.38 | 10.47 | 10.57 | 10.67 | 10.76 | 10.86 |
| 14 | 10.96 | 11.05 | 11.15 | 11.25 | 11.34 | 11.44 | 11.54 | 11.64 | 11.73 | 11.83 |
| 15 | 11.93 | 12.02 | 12.12 | 12.22 | 12.31 | 12.41 | 12.51 | 12.61 | 12.70 | 12.80 |
| 16 | 12.90 | 13.00 | 13.09 | 13.19 | 13.29 | 13.39 | 13.48 | 13.58 | 13.68 | 13.78 |
| 17 | 13.87 | 13.97 | 14.07 | 14.17 | 14.26 | 14.36 | 14.46 | 14.56 | 14.65 | 14.75 |
| 18 | 14.85 | 14.95 | 15.05 | 15.14 | 15.24 | 15.34 | 15.44 | 15.54 | 15.63 | 15.73 |
| 19 | 15.83 | 15.93 | 16.03 | 16.12 | 16.22 | 16.32 | 16.42 | 16.52 | 16.61 | 16.71 |
| 20 | 16.81 | 16.91 | 17.01 | 17.11 | 17.20 | 17.30 | 17.40 | 17.50 | 17.60 | 17.70 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 17.79 | 17.89 | 17.99 | 18.09 | 18.19 | 18.29 | 18.38 | 18.48 | 18.58 | 18.68 |
| 22 | 18.78 | 18.88 | 18.98 | 19.07 | 19.17 | 19.27 | 19.37 | 19.47 | 19.57 | 19.67 |
| 23 | 19.76 | 19.86 | 19.96 | 20.06 | 20.16 | 20.26 | 20.36 | 20.45 | 20.55 | 20.65 |
| 24 | 20.75 | 20.85 | 20.95 | 21.05 | 21.15 | 21.24 | 21.34 | 21.44 | 21.54 | 21.64 |
| 25 | 21.74 | 21.84 | 21.94 | 22.03 | 22.13 | 22.23 | 22.33 | 22.43 | 22.53 | 22.63 |
| 26 | 22.73 | 22.83 | 22.92 | 23.02 | 23.12 | 23.22 | 23.32 | 23.42 | 23.52 | 23.62 |
| 27 | 23.72 | 23.82 | 23.91 | 24.01 | 24.11 | 24.21 | 24.31 | 24.41 | 24.51 | 24.61 |
| 28 | 24.71 | 24.81 | 24.90 | 25.00 | 25.10 | 25.20 | 25.30 | 25.40 | 25.50 | 25.60 |
| 29 | 25.70 | 25.80 | 25.89 | 25.99 | 26.09 | 26.19 | 26.29 | 26.39 | 26.49 | 26.59 |
| 30 | 26.69 | 26.79 | 26.89 | 26.99 | 27.08 | 27.18 | 27.28 | 27.38 | 27.48 | 27.58 |
| 31 | 27.68 | 27.78 | 27.88 | 27.98 | 28.08 | 28.18 | 28.27 | 28.37 | 28.47 | 28.57 |
| 32 | 28.67 | 28.77 | 28.87 | 28.97 | 29.07 | 29.17 | 29.27 | 29.37 | 29.47 | 29.57 |
| 33 | 29.66 | 29.76 | 29.86 | 29.96 | 30.06 | 30.16 | 30.26 | 30.36 | 30.46 | 30.56 |
| 34 | 30.66 | 30.76 | 30.86 | 30.96 | 31.05 | 31.15 | 31.25 | 31.35 | 31.45 | 31.55 |
| 35 | 31.65 | 31.75 | 31.85 | 31.95 | 32.05 | 32.15 | 32.25 | 32.35 | 32.45 | 32.55 |
| 36 | 32.64 | 32.74 | 32.84 | 32.94 | 33.04 | 33.14 | 33.24 | 33.34 | 33.44 | 33.54 |
| 37 | 33.64 | 33.74 | 33.84 | 33.94 | 34.04 | 34.14 | 34.24 | 34.33 | 34.43 | 34.53 |
| 38 | 34.63 | 34.73 | 34.83 | 34.93 | 35.03 | 35.13 | 35.23 | 35.33 | 35.43 | 35.53 |
| 39 | 35.63 | 35.73 | 35.83 | 35.93 | 36.03 | 36.13 | 36.22 | 36.32 | 36.42 | 36.52 |
| 40 | 36.62 | 36.72 | 36.82 | 36.92 | 37.02 | 37.12 | 37.22 | 37.32 | 37.42 | 37.52 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | 0.00 | 0.01 | 0.02 | 0.04 |
| 1 | 0.06 | 0.09 | 0.12 | 0.15 | 0.19 | 0.23 | 0.28 | 0.33 | 0.38 | 0.43 |
| 2 | 0.48 | 0.54 | 0.60 | 0.66 | 0.72 | 0.79 | 0.85 | 0.92 | 0.99 | 1.06 |
| 3 | 1.13 | 1.20 | 1.27 | 1.35 | 1.42 | 1.50 | 1.57 | 1.65 | 1.73 | 1.81 |
| 4 | 1.89 | 1.97 | 2.05 | 2.13 | 2.21 | 2.29 | 2.38 | 2.46 | 2.54 | 2.63 |
| 5 | 2.71 | 2.80 | 2.88 | 2.97 | 3.05 | 3.14 | 3.23 | 3.32 | 3.40 | 3.49 |
| 6 | 3.58 | 3.67 | 3.76 | 3.85 | 3.93 | 4.02 | 4.11 | 4.20 | 4.29 | 4.38 |
| 7 | 4.48 | 4.57 | 4.66 | 4.75 | 4.84 | 4.93 | 5.02 | 5.11 | 5.21 | 5.30 |
| 8 | 5.39 | 5.48 | 5.58 | 5.67 | 5.76 | 5.86 | 5.95 | 6.04 | 6.14 | 6.23 |
| 9 | 6.32 | 6.42 | 6.51 | 6.60 | 6.70 | 6.79 | 6.89 | 6.98 | 7.08 | 7.17 |
| 10 | 7.26 | 7.36 | 7.45 | 7.55 | 7.64 | 7.74 | 7.83 | 7.93 | 8.03 | 8.12 |
| 11 | 8.22 | 8.31 | 8.41 | 8.50 | 8.60 | 8.69 | 8.79 | 8.89 | 8.98 | 9.08 |
| 12 | 9.17 | 9.27 | 9.37 | 9.46 | 9.56 | 9.65 | 9.75 | 9.85 | 9.94 | 10.04 |
| 13 | 10.14 | 10.23 | 10.33 | 10.43 | 10.52 | 10.62 | 10.72 | 10.81 | 10.91 | 11.01 |
| 14 | 11.11 | 11.20 | 11.30 | 11.40 | 11.49 | 11.59 | 11.69 | 11.78 | 11.88 | 11.98 |
| 15 | 12.08 | 12.17 | 12.27 | 12.37 | 12.47 | 12.56 | 12.65 | 12.76 | 12.86 | 12.95 |
| 16 | 13.05 | 13.15 | 13.25 | 13.34 | 13.44 | 13.54 | 13.64 | 13.74 | 13.83 | 13.93 |
| 17 | 14.03 | 14.13 | 14.22 | 14.32 | 14.42 | 14.52 | 14.62 | 14.71 | 14.81 | 14.91 |
| 18 | 15.01 | 15.11 | 15.20 | 15.30 | 15.40 | 15.50 | 15.60 | 15.70 | 15.79 | 15.89 |
| 19 | 15.99 | 16.09 | 16.19 | 16.28 | 16.38 | 16.48 | 16.58 | 16.68 | 16.78 | 16.87 |
| 20 | 16.97 | 17.07 | 17.17 | 17.27 | 17.37 | 17.47 | 17.56 | 17.66 | 17.76 | 17.86 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 17.96 | 18.06 | 18.16 | 18.25 | 18.35 | 18.45 | 18.55 | 18.65 | 18.75 | 18.85 |
| 22 | 18.94 | 19.04 | 19.14 | 19.24 | 19.34 | 19.44 | 19.54 | 19.63 | 19.73 | 19.83 |
| 23 | 19.93 | 20.03 | 20.13 | 20.23 | 20.33 | 20.42 | 20.52 | 20.62 | 20.72 | 20.82 |
| 24 | 20.92 | 21.02 | 21.12 | 21.22 | 21.31 | 21.41 | 21.51 | 21.61 | 21.71 | 21.81 |
| 25 | 21.91 | 22.01 | 22.11 | 22.20 | 22.30 | 22.40 | 22.50 | 22.60 | 22.70 | 22.80 |
| 26 | 22.90 | 23.00 | 23.10 | 23.19 | 23.29 | 23.39 | 23.49 | 23.59 | 23.69 | 23.79 |
| 27 | 23.89 | 23.99 | 24.09 | 24.19 | 24.28 | 24.38 | 24.48 | 24.58 | 24.68 | 24.78 |
| 28 | 24.88 | 24.98 | 25.08 | 25.18 | 25.28 | 25.37 | 25.47 | 25.57 | 25.67 | 25.77 |
| 29 | 25.87 | 25.97 | 26.07 | 26.17 | 26.27 | 26.37 | 26.47 | 26.56 | 26.66 | 26.76 |
| 30 | 26.86 | 26.96 | 27.06 | 27.16 | 27.26 | 27.36 | 27.46 | 27.56 | 27.66 | 27.76 |
| 31 | 27.86 | 27.95 | 28.05 | 28.15 | 28.25 | 28.35 | 28.45 | 28.55 | 28.65 | 28.75 |
| 32 | 28.85 | 28.95 | 29.05 | 29.15 | 29.25 | 29.34 | 29.44 | 29.54 | 29.64 | 29.74 |
| 33 | 29.84 | 29.94 | 30.04 | 30.14 | 30.24 | 30.34 | 30.44 | 30.54 | 30.64 | 30.74 |
| 34 | 30.84 | 30.93 | 31.03 | 31.13 | 31.23 | 31.33 | 31.43 | 31.53 | 31.63 | 31.73 |
| 35 | 31.83 | 31.93 | 32.03 | 32.13 | 32.23 | 32.33 | 32.43 | 32.53 | 32.62 | 32.72 |
| 36 | 32.82 | 32.92 | 33.02 | 33.12 | 33.22 | 33.32 | 33.42 | 33.52 | 33.62 | 33.72 |
| 37 | 33.82 | 33.92 | 34.02 | 34.12 | 34.22 | 34.32 | 34.42 | 34.51 | 34.61 | 34.71 |
| 38 | 34.81 | 34.91 | 35.01 | 35.11 | 35.21 | 35.31 | 35.41 | 35.51 | 35.61 | 35.71 |
| 39 | 35.81 | 35.91 | 36.01 | 36.11 | 36.21 | 36.31 | 36.41 | 36.51 | 36.61 | 36.70 |
| 40 | 36.80 | 36.90 | 37.00 | 37.10 | 37.20 | 37.30 | 37.40 | 37.50 | 37.60 | 37.70 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | 0.00 | 0.01 | 0.02 | 0.04 |
| 1 | 0.07 | 0.10 | 0.13 | 0.17 | 0.21 | 0.26 | 0.31 | 0.36 | 0.41 | 0.46 |
| 2 | 0.52 | 0.58 | 0.64 | 0.71 | 0.77 | 0.84 | 0.90 | 0.97 | 1.04 | 1.12 |
| 3 | 1.19 | 1.26 | 1.34 | 1.41 | 1.49 | 1.57 | 1.64 | 1.72 | 1.80 | 1.88 |
| 4 | 1.96 | 2.04 | 2.13 | 2.21 | 2.29 | 2.38 | 2.46 | 2.54 | 2.63 | 2.71 |
| 5 | 2.80 | 2.89 | 2.97 | 3.06 | 3.15 | 3.24 | 3.32 | 3.41 | 3.50 | 3.59 |
| 6 | 3.68 | 3.77 | 3.86 | 3.95 | 4.04 | 4.13 | 4.22 | 4.31 | 4.40 | 4.49 |
| 7 | 4.58 | 4.67 | 4.77 | 4.86 | 4.95 | 5.04 | 5.14 | 5.23 | 5.32 | 5.41 |
| 8 | 5.51 | 5.60 | 5.69 | 5.79 | 5.88 | 5.97 | 6.07 | 6.16 | 6.26 | 6.35 |
| 9 | 6.44 | 6.54 | 6.63 | 6.73 | 6.82 | 6.92 | 7.01 | 7.11 | 7.20 | 7.30 |
| 10 | 7.39 | 7.49 | 7.58 | 7.68 | 7.77 | 7.87 | 7.96 | 8.06 | 8.16 | 8.25 |
| 11 | 8.35 | 8.44 | 8.54 | 8.63 | 8.73 | 8.83 | 8.92 | 9.02 | 9.12 | 9.21 |
| 12 | 9.31 | 9.41 | 9.50 | 9.60 | 9.70 | 9.79 | 9.89 | 9.99 | 10.08 | 10.18 |
| 13 | 10.28 | 10.37 | 10.47 | 10.57 | 10.66 | 10.76 | 10.86 | 10.96 | 11.05 | 11.15 |
| 14 | 11.25 | 11.34 | 11.44 | 11.54 | 11.64 | 11.73 | 11.83 | 11.93 | 12.03 | 12.12 |
| 15 | 12.22 | 12.32 | 12.42 | 12.51 | 12.61 | 12.71 | 12.81 | 12.90 | 13.00 | 13.10 |
| 16 | 13.20 | 13.30 | 13.39 | 13.49 | 13.59 | 13.69 | 13.79 | 13.88 | 13.98 | 14.08 |
| 17 | 14.18 | 14.28 | 14.37 | 14.47 | 14.57 | 14.67 | 14.77 | 14.86 | 14.96 | 15.06 |
| 18 | 15.16 | 15.26 | 15.36 | 15.45 | 15.55 | 15.65 | 15.75 | 15.85 | 15.95 | 16.04 |
| 19 | 16.14 | 16.24 | 16.34 | 16.44 | 16.54 | 16.64 | 16.73 | 16.83 | 16.93 | 17.03 |
| 20 | 17.13 | 17.23 | 17.32 | 17.42 | 17.52 | 17.62 | 17.72 | 17.82 | 17.92 | 18.02 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

CURVE
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RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 18.11 | 18.21 | 18.31 | 18.41 | 18.51 | 18.61 | 18.71 | 18.80 | 18.90 | 19.00 |
| 22 | 19.10 | 19.20 | 19.30 | 19.40 | 19.50 | 19.60 | 19.69 | 19.79 | 19.89 | 19.99 |
| 23 | 20.09 | 20.19 | 20.29 | 20.39 | 20.49 | 20.58 | 20.68 | 20.78 | 20.88 | 20.98 |
| 24 | 21.08 | 21.18 | 21.28 | 21.38 | 21.47 | 21.57 | 21.67 | 21.77 | 21.87 | 21.97 |
| 25 | 22.07 | 22.17 | 22.27 | 22.37 | 22.47 | 22.56 | 22.66 | 22.76 | 22.86 | 22.96 |
| 26 | 23.06 | 23.16 | 23.26 | 23.36 | 23.46 | 23.56 | 23.65 | 23.75 | 23.85 | 23.95 |
| 27 | 24.05 | 24.15 | 24.25 | 24.35 | 24.45 | 24.55 | 24.65 | 24.75 | 24.84 | 24.94 |
| 28 | 25.04 | 25.14 | 25.24 | 25.34 | 25.44 | 25.54 | 25.64 | 25.74 | 25.84 | 25.94 |
| 29 | 26.04 | 26.13 | 26.23 | 26.33 | 26.43 | 26.53 | 26.63 | 26.73 | 26.83 | 26.93 |
| 30 | 27.03 | 27.13 | 27.23 | 27.33 | 27.43 | 27.52 | 27.62 | 27.72 | 27.82 | 27.92 |
| 31 | 28.02 | 28.12 | 28.22 | 28.32 | 28.42 | 28.52 | 28.62 | 28.72 | 28.82 | 28.92 |
| 32 | 29.02 | 29.11 | 29.21 | 29.31 | 29.41 | 29.51 | 29.61 | 29.71 | 29.81 | 29.91 |
| 33 | 30.01 | 30.11 | 30.21 | 30.31 | 30.41 | 30.51 | 30.61 | 30.71 | 30.80 | 30.90 |
| 34 | 31.00 | 31.10 | 31.20 | 31.30 | 31.40 | 31.50 | 31.60 | 31.70 | 31.80 | 31.90 |
| 35 | 32.00 | 32.10 | 32.20 | 32.30 | 32.40 | 32.50 | 32.60 | 32.70 | 32.79 | 32.89 |
| 36 | 32.99 | 33.09 | 33.19 | 33.29 | 33.39 | 33.49 | 33.59 | 33.69 | 33.79 | 33.89 |
| 37 | 33.99 | 34.09 | 34.19 | 34.29 | 34.39 | 34.49 | 34.59 | 34.69 | 34.79 | 34.88 |
| 38 | 34.98 | 35.08 | 35.18 | 35.28 | 35.38 | 35.48 | 35.58 | 35.68 | 35.78 | 35.88 |
| 39 | 35.98 | 36.08 | 36.18 | 36.28 | 36.38 | 36.48 | 36.58 | 36.68 | 36.78 | 36.88 |
| 40 | 36.98 | 37.08 | 37.18 | 37.27 | 37.37 | 37.47 | 37.57 | 37.67 | 37.77 | 37.87 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | | 0.00 | 0.01 | 0.03 | 0.06 |
| 1 | 0.08 | 0.12 | 0.15 | 0.19 | 0.24 | 0.29 | 0.34 | 0.39 | 0.44 | 0.50 |
| 2 | 0.56 | 0.62 | 0.69 | 0.75 | 0.82 | 0.89 | 0.96 | 1.03 | 1.10 | 1.18 |
| 3 | 1.25 | 1.33 | 1.40 | 1.48 | 1.56 | 1.64 | 1.72 | 1.80 | 1.88 | 1.96 |
| 4 | 2.04 | 2.12 | 2.21 | 2.29 | 2.38 | 2.46 | 2.55 | 2.63 | 2.72 | 2.81 |
| 5 | 2.89 | 2.98 | 3.07 | 3.16 | 3.24 | 3.33 | 3.42 | 3.51 | 3.60 | 3.69 |
| 6 | 3.78 | 3.87 | 3.96 | 4.05 | 4.14 | 4.24 | 4.33 | 4.42 | 4.51 | 4.60 |
| 7 | 4.69 | 4.79 | 4.88 | 4.97 | 5.06 | 5.16 | 5.25 | 5.34 | 5.44 | 5.53 |
| 8 | 5.62 | 5.72 | 5.81 | 5.91 | 6.00 | 6.10 | 6.19 | 6.28 | 6.38 | 6.47 |
| 9 | 6.57 | 6.66 | 6.76 | 6.85 | 6.95 | 7.04 | 7.14 | 7.23 | 7.33 | 7.43 |
| 10 | 7.52 | 7.62 | 7.71 | 7.81 | 7.90 | 8.00 | 8.10 | 8.19 | 8.29 | 8.38 |
| 11 | 8.48 | 8.58 | 8.67 | 8.77 | 8.87 | 8.96 | 9.06 | 9.16 | 9.25 | 9.35 |
| 12 | 9.45 | 9.54 | 9.64 | 9.74 | 9.83 | 9.93 | 10.03 | 10.13 | 10.22 | 10.32 |
| 13 | 10.42 | 10.51 | 10.61 | 10.71 | 10.81 | 10.90 | 11.00 | 11.10 | 11.20 | 11.29 |
| 14 | 11.39 | 11.49 | 11.59 | 11.68 | 11.78 | 11.88 | 11.98 | 12.07 | 12.17 | 12.27 |
| 15 | 12.37 | 12.47 | 12.56 | 12.66 | 12.76 | 12.86 | 12.96 | 13.05 | 13.15 | 13.25 |
| 16 | 13.35 | 13.45 | 13.54 | 13.64 | 13.74 | 13.84 | 13.94 | 14.03 | 14.13 | 14.23 |
| 17 | 14.33 | 14.43 | 14.53 | 14.62 | 14.72 | 14.82 | 14.92 | 15.02 | 15.12 | 15.21 |
| 18 | 15.31 | 15.41 | 15.51 | 15.61 | 15.71 | 15.80 | 15.90 | 16.00 | 16.10 | 16.20 |
| 19 | 16.30 | 16.40 | 16.49 | 16.59 | 16.69 | 16.79 | 16.89 | 16.99 | 17.09 | 17.19 |
| 20 | 17.28 | 17.38 | 17.48 | 17.58 | 17.68 | 17.78 | 17.88 | 17.98 | 18.07 | 18.17 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 18.27 | 18.37 | 18.47 | 18.57 | 18.67 | 18.77 | 18.86 | 18.96 | 19.06 | 19.16 |
| 22 | 19.26 | 19.36 | 19.46 | 19.56 | 19.66 | 19.76 | 19.85 | 19.95 | 20.05 | 20.15 |
| 23 | 20.25 | 20.35 | 20.45 | 20.55 | 20.65 | 20.75 | 20.84 | 20.94 | 21.04 | 21.14 |
| 24 | 21.24 | 21.34 | 21.44 | 21.54 | 21.64 | 21.74 | 21.83 | 21.93 | 22.03 | 22.13 |
| 25 | 22.23 | 22.33 | 22.43 | 22.53 | 22.63 | 22.73 | 22.83 | 22.93 | 23.02 | 23.12 |
| 26 | 23.22 | 23.32 | 23.42 | 23.52 | 23.62 | 23.72 | 23.82 | 23.92 | 24.02 | 24.12 |
| 27 | 24.22 | 24.31 | 24.41 | 24.51 | 24.61 | 24.71 | 24.81 | 24.91 | 25.01 | 25.11 |
| 28 | 25.21 | 25.31 | 25.41 | 25.51 | 25.61 | 25.70 | 25.80 | 25.90 | 26.00 | 26.10 |
| 29 | 26.20 | 26.30 | 26.40 | 26.50 | 26.60 | 26.70 | 26.80 | 26.90 | 27.00 | 27.10 |
| 30 | 27.20 | 27.29 | 27.39 | 27.49 | 27.59 | 27.69 | 27.79 | 27.89 | 27.99 | 28.09 |
| 31 | 28.19 | 28.29 | 28.39 | 28.49 | 28.59 | 28.69 | 28.79 | 28.89 | 28.98 | 29.08 |
| 32 | 29.18 | 29.28 | 29.38 | 29.48 | 29.58 | 29.68 | 29.78 | 29.88 | 29.98 | 30.08 |
| 33 | 30.18 | 30.28 | 30.38 | 30.48 | 30.58 | 30.68 | 30.78 | 30.88 | 30.97 | 31.07 |
| 34 | 31.17 | 31.27 | 31.37 | 31.47 | 31.57 | 31.67 | 31.77 | 31.87 | 31.97 | 32.07 |
| 35 | 32.17 | 32.27 | 32.37 | 32.47 | 32.57 | 32.67 | 32.77 | 32.87 | 32.97 | 33.06 |
| 36 | 33.16 | 33.26 | 33.36 | 33.46 | 33.56 | 33.66 | 33.76 | 33.86 | 33.96 | 34.06 |
| 37 | 34.16 | 34.26 | 34.36 | 34.46 | 34.56 | 34.66 | 34.76 | 34.86 | 34.96 | 35.06 |
| 38 | 35.16 | 35.26 | 35.36 | 35.46 | 35.55 | 35.65 | 35.75 | 35.85 | 35.95 | 36.05 |
| 39 | 36.15 | 36.25 | 36.35 | 36.45 | 36.55 | 36.65 | 36.75 | 36.85 | 36.95 | 37.05 |
| 40 | 37.15 | 37.25 | 37.35 | 37.45 | 37.55 | 37.65 | 37.75 | 37.85 | 37.95 | 38.05 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | 0.00 | 0.01 | 0.02 | 0.04 | 0.07 |
| 1 | 0.10 | 0.13 | 0.17 | 0.22 | 0.27 | 0.32 | 0.37 | 0.42 | 0.48 | 0.54 |
| 2 | 0.61 | 0.67 | 0.74 | 0.80 | 0.87 | 0.94 | 1.02 | 1.09 | 1.16 | 1.24 |
| 3 | 1.32 | 1.39 | 1.47 | 1.55 | 1.63 | 1.71 | 1.79 | 1.87 | 1.96 | 2.04 |
| 4 | 2.12 | 2.21 | 2.29 | 2.38 | 2.47 | 2.55 | 2.64 | 2.73 | 2.81 | 2.90 |
| 5 | 2.99 | 3.08 | 3.17 | 3.26 | 3.34 | 3.43 | 3.52 | 3.62 | 3.71 | 3.80 |
| 6 | 3.89 | 3.98 | 4.07 | 4.16 | 4.25 | 4.35 | 4.44 | 4.53 | 4.62 | 4.72 |
| 7 | 4.81 | 4.90 | 5.00 | 5.09 | 5.18 | 5.28 | 5.37 | 5.46 | 5.56 | 5.65 |
| 8 | 5.75 | 5.84 | 5.94 | 6.03 | 6.13 | 6.22 | 6.31 | 6.41 | 6.51 | 6.60 |
| 9 | 6.70 | 6.79 | 6.89 | 6.98 | 7.08 | 7.17 | 7.27 | 7.37 | 7.46 | 7.56 |
| 10 | 7.65 | 7.75 | 7.85 | 7.94 | 8.04 | 8.13 | 8.23 | 8.33 | 8.42 | 8.52 |
| 11 | 8.62 | 8.71 | 8.81 | 8.91 | 9.00 | 9.10 | 9.20 | 9.30 | 9.39 | 9.49 |
| 12 | 9.59 | 9.68 | 9.78 | 9.88 | 9.98 | 10.07 | 10.17 | 10.27 | 10.37 | 10.46 |
| 13 | 10.56 | 10.66 | 10.76 | 10.85 | 10.95 | 11.05 | 11.15 | 11.24 | 11.34 | 11.44 |
| 14 | 11.54 | 11.63 | 11.73 | 11.83 | 11.93 | 12.03 | 12.12 | 12.22 | 12.32 | 12.42 |
| 15 | 12.52 | 12.61 | 12.71 | 12.81 | 12.91 | 13.01 | 13.11 | 13.20 | 13.30 | 13.40 |
| 16 | 13.50 | 13.60 | 13.69 | 13.79 | 13.89 | 13.99 | 14.09 | 14.19 | 14.29 | 14.38 |
| 17 | 14.48 | 14.58 | 14.68 | 14.78 | 14.88 | 14.97 | 15.07 | 15.17 | 15.27 | 15.37 |
| 18 | 15.47 | 15.57 | 15.66 | 15.76 | 15.86 | 15.96 | 16.06 | 16.16 | 16.26 | 16.36 |
| 19 | 16.45 | 16.55 | 16.65 | 16.75 | 16.85 | 16.95 | 17.05 | 17.15 | 17.24 | 17.34 |
| 20 | 17.44 | 17.54 | 17.64 | 17.74 | 17.84 | 17.94 | 18.04 | 18.13 | 18.23 | 18.33 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 18.43 | 18.53 | 18.63 | 18.73 | 18.83 | 18.93 | 19.03 | 19.12 | 19.22 | 19.32 |
| 22 | 19.42 | 19.52 | 19.62 | 19.72 | 19.82 | 19.92 | 20.02 | 20.11 | 20.21 | 20.31 |
| 23 | 20.41 | 20.51 | 20.61 | 20.71 | 20.81 | 20.91 | 21.01 | 21.11 | 21.21 | 21.30 |
| 24 | 21.40 | 21.50 | 21.60 | 21.70 | 21.80 | 21.90 | 22.00 | 22.10 | 22.20 | 22.30 |
| 25 | 22.40 | 22.49 | 22.59 | 22.69 | 22.79 | 22.89 | 22.99 | 23.09 | 23.19 | 23.29 |
| 26 | 23.39 | 23.49 | 23.59 | 23.69 | 23.79 | 23.88 | 23.98 | 24.08 | 24.18 | 24.28 |
| 27 | 24.38 | 24.48 | 24.58 | 24.68 | 24.78 | 24.88 | 24.98 | 25.08 | 25.18 | 25.28 |
| 28 | 25.38 | 25.47 | 25.57 | 25.67 | 25.77 | 25.87 | 25.97 | 26.07 | 26.17 | 26.27 |
| 29 | 26.37 | 26.47 | 26.57 | 26.67 | 26.77 | 26.87 | 26.97 | 27.07 | 27.16 | 27.26 |
| 30 | 27.36 | 27.46 | 27.56 | 27.66 | 27.76 | 27.86 | 27.96 | 28.06 | 28.16 | 28.26 |
| 31 | 28.36 | 28.46 | 28.56 | 28.66 | 28.76 | 28.86 | 28.96 | 29.06 | 29.15 | 29.25 |
| 32 | 29.35 | 29.45 | 29.55 | 29.65 | 29.75 | 29.85 | 29.95 | 30.05 | 30.15 | 30.25 |
| 33 | 30.35 | 30.45 | 30.55 | 30.65 | 30.75 | 30.85 | 30.95 | 31.05 | 31.15 | 31.25 |
| 34 | 31.34 | 31.44 | 31.54 | 31.64 | 31.74 | 31.84 | 31.94 | 32.04 | 32.14 | 32.24 |
| 35 | 32.34 | 32.44 | 32.54 | 32.64 | 32.74 | 32.84 | 32.94 | 33.04 | 33.14 | 33.24 |
| 36 | 33.34 | 33.44 | 33.54 | 33.64 | 33.74 | 33.83 | 33.93 | 34.03 | 34.13 | 34.23 |
| 37 | 34.33 | 34.43 | 34.53 | 34.63 | 34.73 | 34.83 | 34.93 | 35.03 | 35.13 | 35.23 |
| 38 | 35.33 | 35.43 | 35.53 | 35.63 | 35.73 | 35.83 | 35.93 | 36.03 | 36.13 | 36.23 |
| 39 | 36.33 | 36.43 | 36.53 | 36.62 | 36.72 | 36.82 | 36.92 | 37.02 | 37.12 | 37.22 |
| 40 | 37.32 | 37.42 | 37.52 | 37.62 | 37.72 | 37.82 | 37.92 | 38.02 | 38.12 | 38.22 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | 0.00 | 0.01 | 0.03 | 0.05 | 0.08 |
| 1 | 0.11 | 0.15 | 0.20 | 0.24 | 0.29 | 0.34 | 0.40 | 0.46 | 0.52 | 0.58 |
| 2 | 0.65 | 0.71 | 0.78 | 0.85 | 0.92 | 1.00 | 1.07 | 1.15 | 1.22 | 1.30 |
| 3 | 1.38 | 1.46 | 1.54 | 1.62 | 1.70 | 1.78 | 1.86 | 1.95 | 2.03 | 2.12 |
| 4 | 2.20 | 2.29 | 2.37 | 2.46 | 2.55 | 2.63 | 2.72 | 2.81 | 2.90 | 2.99 |
| 5 | 3.08 | 3.17 | 3.26 | 3.35 | 3.44 | 3.53 | 3.62 | 3.71 | 3.80 | 3.89 |
| 6 | 3.98 | 4.08 | 4.17 | 4.26 | 4.35 | 4.45 | 4.54 | 4.63 | 4.73 | 4.82 |
| 7 | 4.91 | 5.01 | 5.10 | 5.19 | 5.29 | 5.38 | 5.48 | 5.57 | 5.67 | 5.76 |
| 8 | 5.86 | 5.95 | 6.05 | 6.14 | 6.24 | 6.33 | 6.43 | 6.52 | 6.62 | 6.71 |
| 9 | 6.81 | 6.91 | 7.00 | 7.10 | 7.19 | 7.29 | 7.39 | 7.48 | 7.58 | 7.68 |
| 10 | 7.77 | 7.87 | 7.96 | 8.06 | 8.16 | 8.25 | 8.35 | 8.45 | 8.55 | 8.64 |
| 11 | 8.74 | 8.84 | 8.93 | 9.03 | 9.13 | 9.23 | 9.32 | 9.42 | 9.52 | 9.61 |
| 12 | 9.71 | 9.81 | 9.91 | 10.00 | 10.10 | 10.20 | 10.30 | 10.39 | 10.49 | 10.59 |
| 13 | 10.69 | 10.79 | 10.88 | 10.98 | 11.08 | 11.18 | 11.28 | 11.37 | 11.47 | 11.57 |
| 14 | 11.67 | 11.77 | 11.86 | 11.96 | 12.06 | 12.16 | 12.26 | 12.35 | 12.45 | 12.55 |
| 15 | 12.65 | 12.75 | 12.85 | 12.94 | 13.04 | 13.14 | 13.24 | 13.34 | 13.44 | 13.53 |
| 16 | 13.63 | 13.73 | 13.83 | 13.93 | 14.03 | 14.13 | 14.22 | 14.32 | 14.42 | 14.52 |
| 17 | 14.62 | 14.72 | 14.82 | 14.91 | 15.01 | 15.11 | 15.21 | 15.31 | 15.41 | 15.51 |
| 18 | 15.60 | 15.70 | 15.80 | 15.90 | 16.00 | 16.10 | 16.20 | 16.30 | 16.40 | 16.49 |
| 19 | 16.59 | 16.69 | 16.79 | 16.89 | 16.99 | 17.09 | 17.19 | 17.29 | 17.38 | 17.48 |
| 20 | 17.58 | 17.68 | 17.78 | 17.88 | 17.98 | 18.08 | 18.18 | 18.28 | 18.37 | 18.47 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 18.57 | 18.67 | 18.77 | 18.87 | 18.97 | 19.07 | 19.17 | 19.27 | 19.37 | 19.46 |
| 22 | 19.56 | 19.66 | 19.76 | 19.86 | 19.96 | 20.06 | 20.16 | 20.26 | 20.36 | 20.46 |
| 23 | 20.56 | 20.65 | 20.75 | 20.85 | 20.95 | 21.05 | 21.15 | 21.25 | 21.35 | 21.45 |
| 24 | 21.55 | 21.65 | 21.75 | 21.85 | 21.94 | 22.04 | 22.14 | 22.24 | 22.34 | 22.44 |
| 25 | 22.54 | 22.64 | 22.74 | 22.84 | 22.94 | 23.04 | 23.14 | 23.24 | 23.34 | 23.43 |
| 26 | 23.53 | 23.63 | 23.73 | 23.83 | 23.93 | 24.03 | 24.13 | 24.23 | 24.33 | 24.43 |
| 27 | 24.53 | 24.63 | 24.73 | 24.83 | 24.93 | 25.03 | 25.12 | 25.22 | 25.32 | 25.42 |
| 28 | 25.52 | 25.62 | 25.72 | 25.82 | 25.92 | 26.02 | 26.12 | 26.22 | 26.32 | 26.42 |
| 29 | 26.52 | 26.62 | 26.72 | 26.82 | 26.92 | 27.01 | 27.11 | 27.21 | 27.31 | 27.41 |
| 30 | 27.51 | 27.61 | 27.71 | 27.81 | 27.91 | 28.01 | 28.11 | 28.21 | 28.31 | 28.41 |
| 31 | 28.51 | 28.61 | 28.71 | 28.81 | 28.91 | 29.01 | 29.11 | 29.20 | 29.30 | 29.40 |
| 32 | 29.50 | 29.60 | 29.70 | 29.80 | 29.90 | 30.00 | 30.10 | 30.20 | 30.30 | 30.40 |
| 33 | 30.50 | 30.60 | 30.70 | 30.80 | 30.90 | 31.00 | 31.10 | 31.20 | 31.30 | 31.40 |
| 34 | 31.50 | 31.59 | 31.69 | 31.79 | 31.89 | 31.99 | 32.09 | 32.19 | 32.29 | 32.39 |
| 35 | 32.49 | 32.59 | 32.69 | 32.79 | 32.89 | 32.99 | 33.09 | 33.19 | 33.29 | 33.39 |
| 36 | 33.49 | 33.59 | 33.69 | 33.79 | 33.89 | 33.99 | 34.09 | 34.19 | 34.29 | 34.39 |
| 37 | 34.48 | 34.58 | 34.68 | 34.78 | 34.88 | 34.98 | 35.08 | 35.18 | 35.28 | 35.38 |
| 38 | 35.48 | 35.58 | 35.68 | 35.78 | 35.88 | 35.98 | 36.08 | 36.18 | 36.28 | 36.38 |
| 39 | 36.48 | 36.58 | 36.68 | 36.78 | 36.88 | 36.98 | 37.08 | 37.18 | 37.28 | 37.38 |
| 40 | 37.48 | 37.58 | 37.68 | 37.78 | 37.87 | 37.97 | 38.07 | 38.17 | 38.27 | 38.37 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | | 0.00 | 0.02 | 0.04 | 0.06 | 0.09 |
| 1 | 0.13 | 0.17 | 0.22 | 0.27 | 0.32 | 0.38 | 0.44 | 0.50 | 0.56 | 0.63 |
| 2 | 0.69 | 0.76 | 0.83 | 0.91 | 0.98 | 1.06 | 1.13 | 1.21 | 1.29 | 1.37 |
| 3 | 1.45 | 1.53 | 1.61 | 1.69 | 1.77 | 1.86 | 1.94 | 2.03 | 2.11 | 2.20 |
| 4 | 2.29 | 2.37 | 2.46 | 2.55 | 2.64 | 2.72 | 2.81 | 2.90 | 2.99 | 3.08 |
| 5 | 3.17 | 3.26 | 3.35 | 3.45 | 3.54 | 3.63 | 3.72 | 3.81 | 3.90 | 4.00 |
| 6 | 4.09 | 4.18 | 4.28 | 4.37 | 4.46 | 4.56 | 4.65 | 4.74 | 4.84 | 4.93 |
| 7 | 5.03 | 5.12 | 5.22 | 5.31 | 5.40 | 5.50 | 5.59 | 5.69 | 5.79 | 5.88 |
| 8 | 6.98 | 6.07 | 6.17 | 6.26 | 6.36 | 6.45 | 6.55 | 6.65 | 6.74 | 6.84 |
| 9 | 6.93 | 7.03 | 7.13 | 7.22 | 7.32 | 7.42 | 7.51 | 7.61 | 7.71 | 7.80 |
| 10 | 7.90 | 8.00 | 8.09 | 8.19 | 8.29 | 8.39 | 8.48 | 8.58 | 8.68 | 8.78 |
| 11 | 8.87 | 8.97 | 9.07 | 9.16 | 9.26 | 9.36 | 9.46 | 9.56 | 9.65 | 9.75 |
| 12 | 9.85 | 9.95 | 10.04 | 10.14 | 10.24 | 10.34 | 10.44 | 10.53 | 10.63 | 10.73 |
| 13 | 10.83 | 10.93 | 11.02 | 11.12 | 11.22 | 11.32 | 11.42 | 11.51 | 11.61 | 11.71 |
| 14 | 11.81 | 11.91 | 12.01 | 12.10 | 12.20 | 12.30 | 12.40 | 12.50 | 12.60 | 12.69 |
| 15 | 12.79 | 12.89 | 12.99 | 13.09 | 13.19 | 13.29 | 13.38 | 13.48 | 13.58 | 13.68 |
| 16 | 13.78 | 13.88 | 13.98 | 14.07 | 14.17 | 14.27 | 14.37 | 14.47 | 14.57 | 14.67 |
| 17 | 14.77 | 14.86 | 14.96 | 15.06 | 15.16 | 15.26 | 15.36 | 15.46 | 15.56 | 15.66 |
| 18 | 15.75 | 15.85 | 15.95 | 16.05 | 16.15 | 16.25 | 16.35 | 16.45 | 16.55 | 16.64 |
| 19 | 16.74 | 16.84 | 16.94 | 17.04 | 17.14 | 17.24 | 17.34 | 17.44 | 17.54 | 17.64 |
| 20 | 17.73 | 17.83 | 17.93 | 18.03 | 18.13 | 18.23 | 18.33 | 18.43 | 18.53 | 18.63 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 18.73 | 18.82 | 18.92 | 19.02 | 19.12 | 19.22 | 19.32 | 19.42 | 19.52 | 19.62 |
| 22 | 19.72 | 19.82 | 19.92 | 20.02 | 20.11 | 20.21 | 20.31 | 20.41 | 20.51 | 20.61 |
| 23 | 20.71 | 20.81 | 20.91 | 21.01 | 21.11 | 21.21 | 21.31 | 21.41 | 21.51 | 21.60 |
| 24 | 21.70 | 21.80 | 21.90 | 22.00 | 22.10 | 22.20 | 22.30 | 22.40 | 22.50 | 22.60 |
| 25 | 22.70 | 22.80 | 22.90 | 23.00 | 23.10 | 23.19 | 23.29 | 23.39 | 23.49 | 23.59 |
| 26 | 23.69 | 23.79 | 23.89 | 23.99 | 24.09 | 24.19 | 24.29 | 24.39 | 24.49 | 24.59 |
| 27 | 24.69 | 24.79 | 24.89 | 24.99 | 25.08 | 25.18 | 25.28 | 25.38 | 25.48 | 25.58 |
| 28 | 25.68 | 25.78 | 25.88 | 25.98 | 26.08 | 26.18 | 26.28 | 26.38 | 26.48 | 26.58 |
| 29 | 26.68 | 26.78 | 26.88 | 26.98 | 27.08 | 27.17 | 27.27 | 27.37 | 27.47 | 27.57 |
| 30 | 27.67 | 27.77 | 27.87 | 27.97 | 28.07 | 28.17 | 28.27 | 28.37 | 28.47 | 28.57 |
| 31 | 28.67 | 28.77 | 28.87 | 28.97 | 29.07 | 29.17 | 29.27 | 29.37 | 29.47 | 29.57 |
| 32 | 29.66 | 29.76 | 29.86 | 29.96 | 30.06 | 30.16 | 30.26 | 30.36 | 30.46 | 30.56 |
| 33 | 30.66 | 30.76 | 30.86 | 30.96 | 31.06 | 31.16 | 31.26 | 31.36 | 31.46 | 31.56 |
| 34 | 31.66 | 31.76 | 31.86 | 31.96 | 32.06 | 32.16 | 32.26 | 32.36 | 32.46 | 32.55 |
| 35 | 32.65 | 32.75 | 32.85 | 32.95 | 33.05 | 33.15 | 33.25 | 33.35 | 33.45 | 33.55 |
| 36 | 33.65 | 33.75 | 33.85 | 33.95 | 34.05 | 34.15 | 34.25 | 34.35 | 34.45 | 34.55 |
| 37 | 34.65 | 34.75 | 34.85 | 34.95 | 35.05 | 35.15 | 35.25 | 35.35 | 35.45 | 35.55 |
| 38 | 35.65 | 35.75 | 35.85 | 35.95 | 36.04 | 36.14 | 36.24 | 36.34 | 36.44 | 36.54 |
| 39 | 36.64 | 36.74 | 36.84 | 36.94 | 37.04 | 37.14 | 37.24 | 37.34 | 37.44 | 37.54 |
| 40 | 37.64 | 37.74 | 37.84 | 37.94 | 38.04 | 38.14 | 38.24 | 38.34 | 38.44 | 38.54 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | 0.00 | 0.01 | 0.02 | 0.05 | 0.08 | 0.11 |
| 1 | 0.15 | 0.20 | 0.25 | 0.30 | 0.36 | 0.42 | 0.48 | 0.54 | 0.61 | 0.68 |
| 2 | 0.75 | 0.82 | 0.89 | 0.97 | 1.04 | 1.12 | 1.20 | 1.28 | 1.36 | 1.44 |
| 3 | 1.52 | 1.60 | 1.68 | 1.77 | 1.85 | 1.94 | 2.03 | 2.11 | 2.20 | 2.29 |
| 4 | 2.37 | 2.46 | 2.55 | 2.64 | 2.73 | 2.82 | 2.91 | 3.00 | 3.09 | 3.18 |
| 5 | 3.27 | 3.37 | 3.46 | 3.55 | 3.64 | 3.73 | 3.83 | 3.92 | 4.01 | 4.11 |
| 6 | 4.20 | 4.29 | 4.39 | 4.48 | 4.58 | 4.67 | 4.75 | 4.86 | 4.95 | 5.05 |
| 7 | 5.14 | 5.24 | 5.33 | 5.43 | 5.52 | 5.62 | 5.72 | 5.81 | 5.91 | 6.00 |
| 8 | 6.10 | 6.20 | 6.29 | 6.39 | 6.48 | 6.58 | 6.68 | 6.77 | 6.87 | 6.97 |
| 9 | 7.06 | 7.16 | 7.26 | 7.35 | 7.45 | 7.55 | 7.64 | 7.74 | 7.84 | 7.94 |
| 10 | 8.03 | 8.13 | 8.23 | 8.33 | 8.42 | 8.52 | 8.62 | 8.72 | 8.81 | 8.91 |
| 11 | 9.01 | 9.11 | 9.20 | 9.30 | 9.40 | 9.50 | 9.60 | 9.69 | 9.79 | 9.89 |
| 12 | 9.99 | 10.09 | 10.18 | 10.28 | 10.38 | 10.48 | 10.58 | 10.67 | 10.77 | 10.87 |
| 13 | 10.97 | 11.07 | 11.17 | 11.26 | 11.36 | 11.46 | 11.56 | 11.66 | 11.76 | 11.85 |
| 14 | 11.95 | 12.05 | 12.15 | 12.25 | 12.35 | 12.45 | 12.54 | 12.64 | 12.74 | 12.84 |
| 15 | 12.94 | 13.04 | 13.14 | 13.23 | 13.33 | 13.43 | 13.53 | 13.63 | 13.73 | 13.83 |
| 16 | 13.93 | 14.02 | 14.12 | 14.22 | 14.32 | 14.42 | 14.52 | 14.62 | 14.72 | 14.82 |
| 17 | 14.91 | 15.01 | 15.11 | 15.21 | 15.31 | 15.41 | 15.51 | 15.61 | 15.71 | 15.81 |
| 18 | 15.90 | 16.00 | 16.10 | 16.20 | 16.30 | 16.40 | 16.50 | 16.60 | 16.70 | 16.80 |
| 19 | 16.90 | 17.00 | 17.09 | 17.19 | 17.29 | 17.39 | 17.49 | 17.59 | 17.69 | 17.79 |
| 20 | 17.89 | 17.99 | 18.09 | 18.19 | 18.28 | 18.38 | 18.48 | 18.58 | 18.68 | 18.78 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 18.88 | 18.98 | 19.08 | 19.18 | 19.28 | 19.38 | 19.48 | 19.58 | 19.67 | 19.77 |
| 22 | 19.87 | 19.97 | 20.07 | 20.17 | 20.27 | 20.37 | 20.47 | 20.57 | 20.67 | 20.77 |
| 23 | 20.87 | 20.97 | 21.07 | 21.17 | 21.26 | 21.36 | 21.46 | 21.56 | 21.66 | 21.76 |
| 24 | 21.86 | 21.96 | 22.06 | 22.16 | 22.26 | 22.36 | 22.46 | 22.56 | 22.66 | 22.76 |
| 25 | 22.86 | 22.96 | 23.06 | 23.15 | 23.25 | 23.35 | 23.45 | 23.55 | 23.65 | 23.75 |
| 26 | 23.85 | 23.95 | 24.05 | 24.15 | 24.25 | 24.35 | 24.45 | 24.55 | 24.65 | 24.75 |
| 27 | 24.85 | 24.95 | 25.05 | 25.15 | 25.24 | 25.34 | 25.44 | 25.54 | 25.64 | 25.74 |
| 28 | 25.84 | 25.94 | 26.04 | 26.14 | 26.24 | 26.34 | 26.44 | 26.54 | 26.64 | 26.74 |
| 29 | 26.84 | 26.94 | 27.04 | 27.14 | 27.24 | 27.34 | 27.44 | 27.54 | 27.64 | 27.73 |
| 30 | 27.83 | 27.93 | 28.03 | 28.13 | 28.23 | 28.33 | 28.43 | 28.53 | 28.63 | 28.73 |
| 31 | 28.83 | 28.93 | 29.03 | 29.13 | 29.23 | 29.33 | 29.43 | 29.53 | 29.63 | 29.73 |
| 32 | 29.83 | 29.93 | 30.03 | 30.13 | 30.23 | 30.33 | 30.43 | 30.53 | 30.63 | 30.72 |
| 33 | 30.82 | 30.92 | 31.02 | 31.12 | 31.22 | 31.32 | 31.42 | 31.52 | 31.62 | 31.72 |
| 34 | 31.82 | 31.92 | 32.02 | 32.12 | 32.22 | 32.32 | 32.42 | 32.52 | 32.62 | 32.72 |
| 35 | 32.82 | 32.92 | 33.02 | 33.12 | 33.22 | 33.32 | 33.42 | 33.52 | 33.62 | 33.72 |
| 36 | 33.82 | 33.92 | 34.02 | 34.12 | 34.22 | 34.31 | 34.41 | 34.51 | 34.61 | 34.71 |
| 37 | 34.81 | 34.91 | 35.01 | 35.11 | 35.21 | 35.31 | 35.41 | 35.51 | 35.61 | 35.71 |
| 38 | 35.81 | 35.91 | 36.01 | 36.11 | 36.21 | 36.31 | 36.41 | 36.51 | 36.61 | 36.71 |
| 39 | 36.81 | 36.91 | 37.01 | 37.11 | 37.21 | 37.31 | 37.41 | 37.51 | 37.61 | 37.71 |
| 40 | 37.81 | 37.91 | 38.01 | 38.11 | 38.21 | 38.31 | 38.41 | 38.51 | 38.61 | 38.71 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | 0.00 | 0.01 | 0.03 | 0.06 | 0.09 | 0.13 |
| 1 | 0.17 | 0.22 | 0.28 | 0.33 | 0.39 | 0.45 | 0.52 | 0.58 | 0.65 | 0.72 |
| 2 | 0.80 | 0.87 | 0.95 | 1.02 | 1.10 | 1.18 | 1.26 | 1.34 | 1.42 | 1.51 |
| 3 | 1.59 | 1.68 | 1.76 | 1.85 | 1.93 | 2.02 | 2.11 | 2.19 | 2.28 | 2.37 |
| 4 | 2.46 | 2.55 | 2.64 | 2.73 | 2.82 | 2.91 | 3.00 | 3.10 | 3.19 | 3.28 |
| 5 | 3.37 | 3.46 | 3.56 | 3.65 | 3.74 | 3.84 | 3.93 | 4.02 | 4.12 | 4.21 |
| 6 | 4.31 | 4.40 | 4.50 | 4.59 | 4.68 | 4.78 | 4.87 | 4.97 | 5.07 | 5.16 |
| 7 | 5.26 | 5.35 | 5.45 | 5.54 | 5.64 | 5.74 | 5.83 | 5.93 | 6.02 | 6.12 |
| 8 | 6.22 | 6.31 | 6.41 | 6.51 | 6.60 | 6.70 | 6.80 | 6.89 | 6.99 | 7.09 |
| 9 | 7.19 | 7.28 | 7.38 | 7.48 | 7.57 | 7.67 | 7.77 | 7.87 | 7.96 | 8.06 |
| 10 | 8.16 | 8.26 | 8.35 | 8.45 | 8.55 | 8.65 | 8.75 | 8.84 | 8.94 | 9.04 |
| 11 | 9.14 | 9.24 | 9.33 | 9.43 | 9.53 | 9.63 | 9.73 | 9.82 | 9.92 | 10.02 |
| 12 | 10.12 | 10.22 | 10.32 | 10.41 | 10.51 | 10.61 | 10.71 | 10.81 | 10.91 | 11.00 |
| 13 | 11.10 | 11.20 | 11.30 | 11.40 | 11.50 | 11.60 | 11.69 | 11.79 | 11.89 | 11.99 |
| 14 | 12.09 | 12.19 | 12.29 | 12.39 | 12.48 | 12.58 | 12.68 | 12.78 | 12.88 | 12.98 |
| 15 | 13.08 | 13.18 | 13.27 | 13.37 | 13.47 | 13.57 | 13.67 | 13.77 | 13.87 | 13.97 |
| 16 | 14.07 | 14.16 | 14.26 | 14.36 | 14.46 | 14.56 | 14.66 | 14.76 | 14.86 | 14.96 |
| 17 | 15.06 | 15.16 | 15.25 | 15.35 | 15.45 | 15.55 | 15.65 | 15.75 | 15.85 | 15.95 |
| 18 | 16.05 | 16.15 | 16.25 | 16.35 | 16.44 | 16.54 | 16.64 | 16.74 | 16.84 | 16.94 |
| 19 | 17.04 | 17.14 | 17.24 | 17.34 | 17.44 | 17.54 | 17.64 | 17.73 | 17.83 | 17.93 |
| 20 | 18.03 | 18.13 | 18.23 | 18.33 | 18.43 | 18.53 | 18.63 | 18.73 | 18.83 | 18.93 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.03 | 19.13 | 19.22 | 19.32 | 19.42 | 19.52 | 19.62 | 19.72 | 19.82 | 19.92 |
| 22 | 20.02 | 20.12 | 20.22 | 20.32 | 20.42 | 20.52 | 20.62 | 20.72 | 20.82 | 20.92 |
| 23 | 21.01 | 21.11 | 21.21 | 21.31 | 21.41 | 21.51 | 21.61 | 21.71 | 21.81 | 21.91 |
| 24 | 22.01 | 22.11 | 22.21 | 22.31 | 22.41 | 22.51 | 22.61 | 22.71 | 22.81 | 22.91 |
| 25 | 23.01 | 23.10 | 23.20 | 23.30 | 23.40 | 23.50 | 23.60 | 23.70 | 23.80 | 23.90 |
| 26 | 24.00 | 24.10 | 24.20 | 24.30 | 24.40 | 24.50 | 24.60 | 24.70 | 24.80 | 24.90 |
| 27 | 25.00 | 25.10 | 25.20 | 25.30 | 25.40 | 25.50 | 25.59 | 25.69 | 25.79 | 25.89 |
| 28 | 25.99 | 26.09 | 26.19 | 26.29 | 26.39 | 26.49 | 26.59 | 26.69 | 26.79 | 26.89 |
| 29 | 26.99 | 27.09 | 27.19 | 27.29 | 27.39 | 27.49 | 27.59 | 27.69 | 27.79 | 27.89 |
| 30 | 27.99 | 28.09 | 28.19 | 28.29 | 28.39 | 28.49 | 28.58 | 28.68 | 28.78 | 28.88 |
| 31 | 28.98 | 29.08 | 29.18 | 29.28 | 29.38 | 29.48 | 29.58 | 29.68 | 29.78 | 29.88 |
| 32 | 29.98 | 30.08 | 30.18 | 30.28 | 30.38 | 30.48 | 30.58 | 30.68 | 30.78 | 30.88 |
| 33 | 30.98 | 31.08 | 31.18 | 31.28 | 31.38 | 31.48 | 31.58 | 31.68 | 31.78 | 31.88 |
| 34 | 31.98 | 32.08 | 32.17 | 32.27 | 32.37 | 32.47 | 32.57 | 32.67 | 32.77 | 32.87 |
| 35 | 32.97 | 33.07 | 33.17 | 33.27 | 33.37 | 33.47 | 33.57 | 33.67 | 33.77 | 33.87 |
| 36 | 33.97 | 34.07 | 34.17 | 34.27 | 34.37 | 34.47 | 34.57 | 34.67 | 34.77 | 34.87 |
| 37 | 34.97 | 35.07 | 35.17 | 35.27 | 35.37 | 35.47 | 35.57 | 35.67 | 35.77 | 35.87 |
| 38 | 35.97 | 36.07 | 36.17 | 36.27 | 36.37 | 36.47 | 36.57 | 36.67 | 36.77 | 36.86 |
| 39 | 36.96 | 37.06 | 37.16 | 37.26 | 37.36 | 37.46 | 37.56 | 37.66 | 37.76 | 37.86 |
| 40 | 37.96 | 38.06 | 38.16 | 38.26 | 38.36 | 38.46 | 38.56 | 38.66 | 38.76 | 38.86 |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | | 0.00 | 0.02 | 0.04 | 0.07 | 0.11 | 0.15 |
| 1 | 0.20 | 0.25 | 0.31 | 0.36 | 0.43 | 0.49 | 0.56 | 0.63 | 0.70 | 0.77 |
| 2 | 0.85 | 0.92 | 1.00 | 1.08 | 1.16 | 1.24 | 1.32 | 1.41 | 1.49 | 1.58 |
| 3 | 1.66 | 1.75 | 1.83 | 1.92 | 2.01 | 2.10 | 2.19 | 2.27 | 2.36 | 2.45 |
| 4 | 2.54 | 2.64 | 2.73 | 2.82 | 2.91 | 3.00 | 3.09 | 3.19 | 3.28 | 3.37 |
| 5 | 3.47 | 3.56 | 3.65 | 3.75 | 3.84 | 3.93 | 4.03 | 4.12 | 4.22 | 4.31 |
| 6 | 4.41 | 4.50 | 4.60 | 4.69 | 4.79 | 4.88 | 4.98 | 5.08 | 5.17 | 5.27 |
| 7 | 5.36 | 5.46 | 5.56 | 5.65 | 5.75 | 5.85 | 5.94 | 6.04 | 6.14 | 6.23 |
| 8 | 6.33 | 6.43 | 6.52 | 6.62 | 6.72 | 6.81 | 6.91 | 7.01 | 7.11 | 7.20 |
| 9 | 7.30 | 7.40 | 7.50 | 7.59 | 7.69 | 7.79 | 7.89 | 7.99 | 8.08 | 8.18 |
| 10 | 8.28 | 8.38 | 8.47 | 8.57 | 8.67 | 8.77 | 8.87 | 8.97 | 9.06 | 9.16 |
| 11 | 9.26 | 9.36 | 9.46 | 9.55 | 9.65 | 9.75 | 9.85 | 9.95 | 10.05 | 10.15 |
| 12 | 10.24 | 10.34 | 10.44 | 10.54 | 10.64 | 10.74 | 10.84 | 10.93 | 11.03 | 11.13 |
| 13 | 11.23 | 11.33 | 11.43 | 11.53 | 11.62 | 11.72 | 11.82 | 11.92 | 12.02 | 12.12 |
| 14 | 12.22 | 12.32 | 12.42 | 12.51 | 12.61 | 12.71 | 12.81 | 12.91 | 13.01 | 13.11 |
| 15 | 13.21 | 13.31 | 13.40 | 13.50 | 13.60 | 13.70 | 13.80 | 13.90 | 14.00 | 14.10 |
| 16 | 14.20 | 14.30 | 14.40 | 14.49 | 14.59 | 14.69 | 14.79 | 14.89 | 14.99 | 15.09 |
| 17 | 15.19 | 15.29 | 15.39 | 15.49 | 15.59 | 15.69 | 15.78 | 15.88 | 15.98 | 16.08 |
| 18 | 16.18 | 16.28 | 16.38 | 16.48 | 16.58 | 16.68 | 16.78 | 16.88 | 16.98 | 17.08 |
| 19 | 17.17 | 17.27 | 17.37 | 17.47 | 17.57 | 17.67 | 17.77 | 17.87 | 17.97 | 18.07 |
| 20 | 18.17 | 18.27 | 18.37 | 18.47 | 18.57 | 18.67 | 18.77 | 18.86 | 18.96 | 19.06 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.16 | 19.26 | 19.36 | 19.46 | 19.56 | 19.66 | 19.76 | 19.86 | 19.96 | 20.06 |
| 22 | 20.16 | 20.26 | 20.36 | 20.46 | 20.56 | 20.66 | 20.76 | 20.85 | 20.95 | 21.05 |
| 23 | 21.15 | 21.25 | 21.35 | 21.45 | 21.55 | 21.65 | 21.75 | 21.85 | 21.95 | 22.05 |
| 24 | 22.15 | 22.25 | 22.35 | 22.45 | 22.55 | 22.65 | 22.75 | 22.85 | 22.95 | 23.05 |
| 25 | 23.14 | 23.24 | 23.34 | 23.44 | 23.54 | 23.64 | 23.74 | 23.84 | 23.94 | 24.04 |
| 26 | 24.14 | 24.24 | 24.34 | 24.44 | 24.54 | 24.64 | 24.74 | 24.84 | 24.94 | 25.04 |
| 27 | 25.14 | 25.24 | 25.34 | 25.44 | 25.54 | 25.64 | 25.74 | 25.84 | 25.94 | 26.03 |
| 28 | 26.13 | 26.23 | 26.33 | 26.43 | 26.53 | 26.63 | 26.73 | 26.83 | 26.93 | 27.03 |
| 29 | 27.13 | 27.23 | 27.33 | 27.43 | 27.53 | 27.63 | 27.73 | 27.83 | 27.93 | 28.03 |
| 30 | 28.13 | 28.23 | 28.33 | 28.43 | 28.53 | 28.63 | 28.73 | 28.83 | 28.93 | 29.03 |
| 31 | 29.13 | 29.23 | 29.33 | 29.43 | 29.53 | 29.62 | 29.72 | 29.82 | 29.92 | 30.02 |
| 32 | 30.12 | 30.22 | 30.32 | 30.42 | 30.52 | 30.62 | 30.72 | 30.82 | 30.92 | 31.02 |
| 33 | 31.12 | 31.22 | 31.32 | 31.42 | 31.52 | 31.62 | 31.72 | 31.82 | 31.92 | 32.02 |
| 34 | 32.12 | 32.22 | 32.32 | 32.42 | 32.52 | 32.62 | 32.72 | 32.82 | 32.92 | 33.02 |
| 35 | 33.12 | 33.22 | 33.32 | 33.42 | 33.52 | 33.62 | 33.72 | 33.82 | 33.92 | 34.02 |
| 36 | 34.12 | 34.22 | 34.31 | 34.41 | 34.51 | 34.61 | 34.71 | 34.81 | 34.91 | 35.01 |
| 37 | 35.11 | 35.21 | 35.31 | 35.41 | 35.51 | 35.61 | 35.71 | 35.81 | 35.91 | 36.01 |
| 38 | 36.11 | 36.21 | 36.31 | 36.41 | 36.51 | 36.61 | 36.71 | 36.81 | 36.91 | 37.01 |
| 39 | 37.11 | 37.21 | 37.31 | 37.41 | 37.51 | 37.61 | 37.71 | 37.81 | 37.91 | 38.01 |
| 40 | 38.11 | 38.21 | 38.31 | 38.41 | 38.51 | 38.61 | 38.71 | 38.81 | 38.91 | 39.01 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | 0.00 | 0.01 | 0.02 | 0.05 | 0.09 | 0.13 | 0.17 |
| 1 | 0.22 | 0.28 | 0.34 | 0.40 | 0.47 | 0.54 | 0.61 | 0.68 | 0.75 | 0.83 |
| 2 | 0.91 | 0.99 | 1.07 | 1.15 | 1.23 | 1.31 | 1.40 | 1.48 | 1.57 | 1.65 |
| 3 | 1.74 | 1.83 | 1.92 | 2.01 | 2.10 | 2.19 | 2.28 | 2.37 | 2.46 | 2.55 |
| 4 | 2.64 | 2.73 | 2.82 | 2.92 | 3.01 | 3.10 | 3.20 | 3.29 | 3.38 | 3.48 |
| 5 | 3.57 | 3.66 | 3.76 | 3.85 | 3.95 | 4.04 | 4.14 | 4.23 | 4.33 | 4.43 |
| 6 | 4.52 | 4.62 | 4.71 | 4.81 | 4.90 | 5.00 | 5.10 | 5.19 | 5.29 | 5.39 |
| 7 | 5.48 | 5.58 | 5.68 | 5.77 | 5.87 | 5.97 | 6.06 | 6.16 | 6.26 | 6.36 |
| 8 | 6.45 | 6.55 | 6.65 | 6.75 | 6.84 | 6.94 | 7.04 | 7.14 | 7.23 | 7.33 |
| 9 | 7.43 | 7.53 | 7.63 | 7.72 | 7.82 | 7.92 | 8.02 | 8.12 | 8.21 | 8.31 |
| 10 | 8.41 | 8.51 | 8.61 | 8.71 | 8.80 | 8.90 | 9.00 | 9.10 | 9.20 | 9.30 |
| 11 | 9.39 | 9.49 | 9.59 | 9.69 | 9.79 | 9.89 | 9.99 | 10.08 | 10.18 | 10.28 |
| 12 | 10.38 | 10.48 | 10.58 | 10.68 | 10.78 | 10.87 | 10.97 | 11.07 | 11.17 | 11.27 |
| 13 | 11.37 | 11.47 | 11.57 | 11.67 | 11.76 | 11.86 | 11.96 | 12.06 | 12.16 | 12.26 |
| 14 | 12.36 | 12.46 | 12.56 | 12.66 | 12.75 | 12.85 | 12.95 | 13.05 | 13.15 | 13.25 |
| 15 | 13.35 | 13.45 | 13.55 | 13.65 | 13.75 | 13.84 | 13.94 | 14.04 | 14.14 | 14.24 |
| 16 | 14.34 | 14.44 | 14.54 | 14.64 | 14.74 | 14.84 | 14.94 | 15.04 | 15.14 | 15.23 |
| 17 | 15.33 | 15.43 | 15.53 | 15.63 | 15.73 | 15.83 | 15.93 | 16.03 | 16.13 | 16.23 |
| 18 | 16.33 | 16.43 | 16.53 | 16.63 | 16.73 | 16.82 | 16.92 | 17.02 | 17.12 | 17.22 |
| 19 | 17.32 | 17.42 | 17.52 | 17.62 | 17.72 | 17.82 | 17.92 | 18.02 | 18.12 | 18.22 |
| 20 | 18.32 | 18.42 | 18.52 | 18.62 | 18.71 | 18.81 | 18.91 | 19.01 | 19.11 | 19.21 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.31 | 19.41 | 19.51 | 19.61 | 19.71 | 19.81 | 19.91 | 20.01 | 20.11 | 20.21 |
| 22 | 20.31 | 20.41 | 20.51 | 20.61 | 20.71 | 20.81 | 20.91 | 21.00 | 21.10 | 21.20 |
| 23 | 21.30 | 21.40 | 21.50 | 21.60 | 21.70 | 21.80 | 21.90 | 22.00 | 22.10 | 22.20 |
| 24 | 22.30 | 22.40 | 22.50 | 22.60 | 22.70 | 22.80 | 22.90 | 23.00 | 23.10 | 23.20 |
| 25 | 23.30 | 23.40 | 23.50 | 23.60 | 23.70 | 23.80 | 23.89 | 23.99 | 24.09 | 24.19 |
| 26 | 24.29 | 24.39 | 24.49 | 24.59 | 24.69 | 24.79 | 24.89 | 24.99 | 25.09 | 25.19 |
| 27 | 25.29 | 25.39 | 25.49 | 25.59 | 25.69 | 25.79 | 25.89 | 25.99 | 26.09 | 26.19 |
| 28 | 26.29 | 26.39 | 26.49 | 26.59 | 26.69 | 26.79 | 26.89 | 26.99 | 27.09 | 27.19 |
| 29 | 27.29 | 27.39 | 27.49 | 27.58 | 27.68 | 27.78 | 27.88 | 27.98 | 28.08 | 28.18 |
| 30 | 28.28 | 28.38 | 28.48 | 28.58 | 28.68 | 28.78 | 28.88 | 28.98 | 29.08 | 29.18 |
| 31 | 29.28 | 29.38 | 29.48 | 29.58 | 29.68 | 29.78 | 29.88 | 29.98 | 30.08 | 30.18 |
| 32 | 30.28 | 30.38 | 30.48 | 30.58 | 30.68 | 30.78 | 30.88 | 30.98 | 31.08 | 31.18 |
| 33 | 31.28 | 31.38 | 31.48 | 31.58 | 31.68 | 31.78 | 31.88 | 31.98 | 32.08 | 32.18 |
| 34 | 32.28 | 32.37 | 32.47 | 32.57 | 32.67 | 32.77 | 32.87 | 32.97 | 33.07 | 33.17 |
| 35 | 33.27 | 33.37 | 33.47 | 33.57 | 33.67 | 33.77 | 33.87 | 33.97 | 34.07 | 34.17 |
| 36 | 34.27 | 34.37 | 34.47 | 34.57 | 34.67 | 34.77 | 34.87 | 34.97 | 35.07 | 35.17 |
| 37 | 35.27 | 35.37 | 35.47 | 35.57 | 35.67 | 35.77 | 35.87 | 35.97 | 36.07 | 36.17 |
| 38 | 36.27 | 36.37 | 36.47 | 36.57 | 36.67 | 36.77 | 36.87 | 36.97 | 37.07 | 37.17 |
| 39 | 37.27 | 37.37 | 37.47 | 37.57 | 37.67 | 37.77 | 37.87 | 37.97 | 38.07 | 38.17 |
| 40 | 38.27 | 38.37 | 38.47 | 38.57 | 38.67 | 38.77 | 38.87 | 38.96 | 39.06 | 39.16 |
| | | | | | . | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | 0.00 | 0.01 | 0.03 | 0.06 | 0.10 | 0.15 | 0.20 |
| 1 | 0.25 | 0.31 | 0.38 | 0.44 | 0.51 | 0.58 | 0.66 | 0.73 | 0.81 | 0.89 |
| 2 | 0.97 | 1.05 | 1.13 | 1.21 | 1.30 | 1.38 | 1.47 | 1.56 | 1.64 | 1.73 |
| 3 | 1.82 | 1.91 | 2.00 | 2.09 | 2.18 | 2.27 | 2.36 | 2.45 | 2.55 | 2.64 |
| 4 | 2.73 | 2.82 | 2.92 | 3.01 | 3.11 | 3.20 | 3.29 | 3.39 | 3.48 | 3.58 |
| 5 | 3.67 | 3.77 | 3.86 | 3.96 | 4.05 | 4.15 | 4.24 | 4.34 | 4.44 | 4.53 |
| 6 | 4.63 | 4.73 | 4.82 | 4.92 | 5.02 | 5.11 | 5.21 | 5.31 | 5.40 | 5.50 |
| 7 | 5.60 | 5.69 | 5.79 | 5.89 | 5.99 | 6.08 | 6.18 | 6.28 | 6.38 | 6.47 |
| 8 | 6.57 | 6.67 | 6.77 | 6.87 | 6.96 | 7.06 | 7.16 | 7.26 | 7.36 | 7.45 |
| 9 | 7.55 | 7.65 | 7.75 | 7.85 | 7.94 | 8.04 | 8.14 | 8.24 | 8.34 | 8.44 |
| 10 | 8.53 | 8.63 | 8.73 | 8.83 | 8.93 | 9.03 | 9.13 | 9.22 | 9.32 | 9.42 |
| 11 | 9.52 | 9.62 | 9.72 | 9.82 | 9.92 | 10.01 | 10.11 | 10.21 | 10.31 | 10.41 |
| 12 | 10.51 | 10.61 | 10.71 | 10.81 | 10.91 | 11.00 | 11.10 | 11.20 | 11.30 | 11.40 |
| 13 | 11.50 | 11.60 | 11.70 | 11.80 | 11.90 | 11.99 | 12.09 | 12.19 | 12.29 | 12.39 |
| 14 | 12.49 | 12.59 | 12.69 | 12.79 | 12.89 | 12.99 | 13.09 | 13.19 | 13.28 | 13.38 |
| 15 | 13.48 | 13.58 | 13.68 | 13.78 | 13.88 | 13.98 | 14.08 | 14.18 | 14.28 | 14.38 |
| 16 | 14.48 | 14.58 | 14.67 | 14.77 | 14.87 | 14.97 | 15.07 | 15.17 | 15.27 | 15.37 |
| 17 | 15.47 | 15.57 | 15.67 | 15.77 | 15.87 | 15.97 | 16.07 | 16.17 | 16.27 | 16.37 |
| 18 | 16.46 | 16.56 | 16.66 | 16.76 | 16.86 | 16.96 | 17.06 | 17.16 | 17.26 | 17.36 |
| 19 | 17.46 | 17.56 | 17.66 | 17.76 | 17.86 | 17.96 | 18.06 | 18.16 | 18.26 | 18.36 |
| 20 | 18.46 | 18.56 | 18.65 | 18.75 | 18.85 | 18.95 | 19.05 | 19.15 | 19.25 | 19.35 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.45 | 19.55 | 19.65 | 19.75 | 19.85 | 19.95 | 20.05 | 20.15 | 20.25 | 20.35 |
| 22 | 20.45 | 20.55 | 20.65 | 20.75 | 20.85 | 20.95 | 21.05 | 21.15 | 21.25 | 21.35 |
| 23 | 21.44 | 21.54 | 21.64 | 21.74 | 21.84 | 21.94 | 22.04 | 22.14 | 22.24 | 22.34 |
| 24 | 22.44 | 22.54 | 22.64 | 22.74 | 22.84 | 22.94 | 23.04 | 23.14 | 23.24 | 23.34 |
| 25 | 23.44 | 23.54 | 23.64 | 23.74 | 23.84 | 23.94 | 24.04 | 24.14 | 24.24 | 24.34 |
| 26 | 24.44 | 24.54 | 24.64 | 24.74 | 24.84 | 24.94 | 25.03 | 25.13 | 25.23 | 25.33 |
| 27 | 25.43 | 25.53 | 25.63 | 25.73 | 25.83 | 25.93 | 26.03 | 26.13 | 26.23 | 26.33 |
| 28 | 26.43 | 26.53 | 26.63 | 26.73 | 26.83 | 26.93 | 27.03 | 27.13 | 27.23 | 27.33 |
| 29 | 27.43 | 27.53 | 27.63 | 27.73 | 27.83 | 27.93 | 28.03 | 28.13 | 28.23 | 28.33 |
| 30 | 28.43 | 28.53 | 28.63 | 28.73 | 28.83 | 28.93 | 29.03 | 29.13 | 29.23 | 29.33 |
| 31 | 29.43 | 29.53 | 29.63 | 29.73 | 29.82 | 29.92 | 30.02 | 30.12 | 30.22 | 30.32 |
| 32 | 30.42 | 30.52 | 30.62 | 30.72 | 30.82 | 30.92 | 31.02 | 31.12 | 31.22 | 31.32 |
| 33 | 31.42 | 31.52 | 31.62 | 31.72 | 31.82 | 31.92 | 32.02 | 32.12 | 32.22 | 32.32 |
| 34 | 32.42 | 32.52 | 32.62 | 32.72 | 32.82 | 32.92 | 33.02 | 33.12 | 33.22 | 33.32 |
| 35 | 33.42 | 33.52 | 33.62 | 33.72 | 33.82 | 33.92 | 34.02 | 34.12 | 34.22 | 34.32 |
| 36 | 34.42 | 34.52 | 34.62 | 34.72 | 34.82 | 34.92 | 35.02 | 35.12 | 35.22 | 35.32 |
| 37 | 35.42 | 35.52 | 35.62 | 35.72 | 35.82 | 35.92 | 36.02 | 36.12 | 36.22 | 36.32 |
| 38 | 36.42 | 36.52 | 36.62 | 36.71 | 36.81 | 36.91 | 37.01 | 37.11 | 37.21 | 37.31 |
| 39 | 37.41 | 37.51 | 37.61 | 37.71 | 37.81 | 37.91 | 38.01 | 38.11 | 38.21 | 38.31 |
| 40 | 38.41 | 38.51 | 38.61 | 38.71 | 38.81 | 38.91 | 39.01 | 39.11 | 39.21 | 39.31 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | 0.00 | 0.02 | 0.04 | 0.08 | 0.12 | 0.17 | 0.22 |
| 1 | 0.28 | 0.35 | 0.41 | 0.48 | 0.55 | 0.63 | 0.71 | 0.78 | 0.86 | 0.94 |
| 2 | 1.03 | 1.11 | 1.19 | 1.28 | 1.37 | 1.45 | 1.54 | 1.63 | 1.72 | 1.81 |
| 3 | 1.90 | 1.99 | 2.08 | 2.17 | 2.26 | 2.35 | 2.45 | 2.54 | 2.63 | 2.73 |
| 4 | 2.82 | 2.91 | 3.01 | 3.10 | 3.20 | 3.29 | 3.39 | 3.48 | 3.58 | 3.67 |
| 5 | 3.77 | 3.86 | 3.96 | 4.06 | 4.15 | 4.25 | 4.35 | 4.44 | 4.54 | 4.64 |
| 6 | 4.73 | 4.83 | 4.93 | 5.02 | 5.12 | 5.22 | 5.31 | 5.41 | 5.51 | 5.61 |
| 7 | 5.70 | 5.80 | 5.90 | 6.00 | 6.10 | 6.19 | 6.29 | 6.39 | 6.49 | 6.58 |
| 8 | 6.68 | 6.78 | 6.88 | 6.98 | 7.08 | 7.17 | 7.27 | 7.37 | 7.47 | 7.57 |
| 9 | 7.67 | 7.76 | 7.86 | 7.96 | 8.06 | 8.16 | 8.26 | 8.36 | 8.45 | 8.55 |
| 10 | 8.65 | 8.75 | 8.85 | 8.95 | 9.05 | 9.15 | 9.24 | 9.34 | 9.44 | 9.54 |
| 11 | 9.64 | 9.74 | 9.84 | 9.94 | 10.04 | 10.14 | 10.23 | 10.33 | 10.43 | 10.53 |
| 12 | 10.63 | 10.73 | 10.83 | 10.93 | 11.03 | 11.13 | 11.23 | 11.32 | 11.42 | 11.52 |
| 13 | 11.62 | 11.72 | 11.82 | 11.92 | 12.02 | 12.12 | 12.22 | 12.32 | 12.42 | 12.52 |
| 14 | 12.61 | 12.71 | 12.81 | 12.91 | 13.01 | 13.11 | 13.21 | 13.31 | 13.41 | 13.51 |
| 15 | 13.61 | 13.71 | 13.81 | 13.91 | 14.01 | 14.11 | 14.20 | 14.30 | 14.40 | 14.50 |
| 16 | 14.60 | 14.70 | 14.80 | 14.90 | 15.00 | 15.10 | 15.20 | 15.30 | 15.40 | 15.50 |
| 17 | 15.60 | 15.70 | 15.80 | 15.90 | 16.00 | 16.10 | 16.19 | 16.29 | 16.39 | 16.49 |
| 18 | 16.59 | 16.69 | 16.79 | 16.89 | 16.99 | 17.09 | 17.19 | 17.29 | 17.39 | 17.49 |
| 19 | 17.59 | 17.69 | 17.79 | 17.89 | 17.99 | 18.09 | 18.19 | 18.29 | 18.39 | 18.49 |
| 20 | 18.59 | 18.68 | 18.78 | 18.88 | 18.98 | 19.08 | 19.18 | 19.28 | 19.38 | 19.48 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.58 | 19.68 | 19.78 | 19.88 | 19.98 | 20.08 | 20.18 | 20.28 | 20.38 | 20.48 |
| 22 | 20.58 | 20.68 | 20.78 | 20.88 | 20.98 | 21.08 | 21.18 | 21.28 | 21.38 | 21.48 |
| 23 | 21.58 | 21.68 | 21.78 | 21.88 | 21.98 | 22.07 | 22.17 | 22.27 | 22.37 | 22.47 |
| 24 | 22.57 | 22.67 | 22.77 | 22.87 | 22.97 | 23.07 | 23.17 | 23.27 | 23.37 | 23.47 |
| 25 | 23.57 | 23.67 | 23.77 | 23.87 | 23.97 | 24.07 | 24.17 | 24.27 | 24.37 | 24.47 |
| 26 | 24.57 | 24.67 | 24.77 | 24.87 | 24.97 | 25.07 | 25.17 | 25.27 | 25.37 | 25.47 |
| 27 | 25.57 | 25.67 | 25.77 | 25.87 | 25.97 | 26.07 | 26.17 | 26.27 | 26.37 | 26.47 |
| 28 | 26.57 | 26.66 | 26.76 | 26.86 | 26.96 | 27.06 | 27.16 | 27.26 | 27.36 | 27.46 |
| 29 | 27.56 | 27.66 | 27.76 | 27.86 | 27.96 | 28.06 | 28.16 | 28.26 | 28.36 | 28.46 |
| 30 | 28.56 | 28.66 | 28.76 | 28.86 | 28.96 | 29.06 | 29.16 | 29.26 | 29.36 | 29.46 |
| 31 | 29.56 | 29.66 | 29.76 | 29.86 | 29.96 | 30.06 | 30.16 | 30.26 | 30.36 | 30.46 |
| 32 | 30.56 | 30.66 | 30.76 | 30.86 | 30.96 | 31.06 | 31.16 | 31.26 | 31.36 | 31.46 |
| 33 | 31.56 | 31.66 | 31.76 | 31.86 | 31.96 | 32.06 | 32.16 | 32.26 | 32.36 | 32.46 |
| 34 | 32.56 | 32.66 | 32.76 | 32.86 | 32.96 | 33.06 | 33.16 | 33.26 | 33.35 | 33.45 |
| 35 | 33.55 | 33.65 | 33.75 | 33.85 | 33.95 | 34.05 | 34.15 | 34.25 | 34.35 | 34.45 |
| 36 | 34.55 | 34.65 | 34.75 | 34.85 | 34.95 | 35.05 | 35.15 | 35.25 | 35.35 | 35.45 |
| 37 | 35.55 | 35.65 | 35.75 | 35.85 | 35.95 | 36.05 | 36.15 | 36.25 | 36.35 | 36.45 |
| 38 | 36.55 | 36.65 | 36.75 | 36.85 | 36.95 | 37.05 | 37.15 | 37.25 | 37.35 | 37.45 |
| 39 | 37.55 | 37.65 | 37.75 | 37.85 | 37.95 | 38.05 | 38.15 | 38.25 | 38.35 | 38.45 |
| 40 | 38.55 | 38.65 | 38.75 | 38.85 | 38.95 | 39.05 | 39.15 | 39.25 | 39.35 | 39.45 |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | | 0.01 | 0.02 | 0.06 | 0.10 | 0.14 | 0.20 | 0.26 |
| 1 | 0.32 | 0.39 | 0.46 | 0.53 | 0.61 | 0.68 | 0.76 | 0.84 | 0.93 | 1.01 |
| 2 | 1.09 | 1.18 | 1.27 | 1.35 | 1.44 | 1.53 | 1.62 | 1.71 | 1.80 | 1.89 |
| 3 | 1.98 | 2.08 | 2.17 | 2.26 | 2.36 | 2.45 | 2.54 | 2.64 | 2.73 | 2.83 |
| 4 | 2.92 | 3.02 | 3.11 | 3.21 | 3.30 | 3.40 | 3.49 | 3.59 | 3.68 | 3.78 |
| 5 | 3.88 | 3.97 | 4.07 | 4.17 | 4.26 | 4.36 | 4.46 | 4.56 | 4.65 | 4.75 |
| 6 | 4.85 | 4.94 | 5.04 | 5.14 | 5.24 | 5.33 | 5.43 | 5.53 | 5.63 | 5.73 |
| 7 | 5.82 | 5.92 | 6.02 | 6.12 | 6.22 | 6.31 | 6.41 | 6.51 | 6.61 | 6.71 |
| 8 | 6.81 | 6.91 | 7.00 | 7.10 | 7.20 | 7.30 | 7.40 | 7.50 | 7.60 | 7.69 |
| 9 | 7.79 | 7.89 | 7.99 | 8.09 | 8.19 | 8.29 | 8.39 | 8.48 | 8.58 | 8.68 |
| 10 | 8.78 | 8.88 | 8.98 | 9.08 | 9.18 | 9.28 | 9.38 | 9.47 | 9.57 | 9.67 |
| 11 | 9.77 | 9.87 | 9.97 | 10.07 | 10.17 | 10.27 | 10.37 | 10.47 | 10.57 | 10.66 |
| 12 | 10.76 | 10.86 | 10.96 | 11.06 | 11.16 | 11.26 | 11.36 | 11.46 | 11.56 | 11.66 |
| 13 | 11.76 | 11.86 | 11.96 | 12.05 | 12.15 | 12.25 | 12.35 | 12.45 | 12.55 | 12.65 |
| 14 | 12.75 | 12.85 | 12.95 | 13.05 | 13.15 | 13.25 | 13.35 | 13.45 | 13.55 | 13.65 |
| 15 | 13.75 | 13.85 | 13.94 | 14.04 | 14.14 | 14.24 | 14.34 | 14.44 | 14.54 | 14.64 |
| 16 | 14.74 | 14.84 | 14.94 | 15.04 | 15.14 | 15.24 | 15.34 | 15.44 | 15.54 | 15.64 |
| 17 | 15.74 | 15.84 | 15.94 | 16.04 | 16.14 | 16.23 | 16.33 | 16.43 | 16.53 | 16.63 |
| 18 | 16.73 | 16.83 | 16.93 | 17.03 | 17.13 | 17.23 | 17.33 | 17.43 | 17.53 | 17.63 |
| 19 | 17.73 | 17.83 | 17.93 | 18.03 | 18.13 | 18.23 | 18.33 | 18.43 | 18.53 | 18.63 |
| 20 | 18.73 | 18.83 | 18.93 | 19.03 | 19.13 | 19.23 | 19.33 | 19.43 | 19.52 | 19.62 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.72 | 19.82 | 19.92 | 20.02 | 20.12 | 20.22 | 20.32 | 20.42 | 20.52 | 20.62 |
| 22 | 20.72 | 20.82 | 20.92 | 21.02 | 21.12 | 21.22 | 21.32 | 21.42 | 21.52 | 21.62 |
| 23 | 21.72 | 21.82 | 21.92 | 22.02 | 22.12 | 22.22 | 22.32 | 22.42 | 22.52 | 22.62 |
| 24 | 22.72 | 22.82 | 22.92 | 23.02 | 23.12 | 23.22 | 23.32 | 23.42 | 23.52 | 23.62 |
| 25 | 23.72 | 23.82 | 23.92 | 24.02 | 24.11 | 24.21 | 24.31 | 24.41 | 24.51 | 24.61 |
| 26 | 24.71 | 24.81 | 24.91 | 25.01 | 25.11 | 25.21 | 25.31 | 25.41 | 25.51 | 25.61 |
| 27 | 25.71 | 25.81 | 25.91 | 26.01 | 26.11 | 26.21 | 26.31 | 26.41 | 26.51 | 26.61 |
| 28 | 26.71 | 26.81 | 26.91 | 27.01 | 27.11 | 27.21 | 27.31 | 27.41 | 27.51 | 27.61 |
| 29 | 27.71 | 27.81 | 27.91 | 28.01 | 28.11 | 28.21 | 28.31 | 28.41 | 28.51 | 28.61 |
| 30 | 28.71 | 28.81 | 28.91 | 29.01 | 29.11 | 29.21 | 29.31 | 29.41 | 29.51 | 29.61 |
| 31 | 29.71 | 29.81 | 29.91 | 30.01 | 30.11 | 30.21 | 30.31 | 30.41 | 30.51 | 30.61 |
| 32 | 30.71 | 30.81 | 30.91 | 31.01 | 31.10 | 31.20 | 31.30 | 31.40 | 31.50 | 31.60 |
| 33 | 31.70 | 31.80 | 31.90 | 32.00 | 32.10 | 32.20 | 32.30 | 32.40 | 32.50 | 32.60 |
| 34 | 32.70 | 32.80 | 32.90 | 33.00 | 33.10 | 33.20 | 33.30 | 33.40 | 33.50 | 33.60 |
| 35 | 33.70 | 33.80 | 33.90 | 34.00 | 34.10 | 34.20 | 34.30 | 34.40 | 34.50 | 34.60 |
| 36 | 34.70 | 34.80 | 34.90 | 35.00 | 35.10 | 35.20 | 35.30 | 35.40 | 35.50 | 35.60 |
| 37 | 35.70 | 35.80 | 35.90 | 36.00 | 36.10 | 36.20 | 36.30 | 36.40 | 36.50 | 36.60 |
| 38 | 36.70 | 36.80 | 36.90 | 37.00 | 37.10 | 37.20 | 37.30 | 37.40 | 37.50 | 37.60 |
| 39 | 37.70 | 37.80 | 37.90 | 38.00 | 38.10 | 38.20 | 38.30 | 38.40 | 38.50 | 38.60 |
| 40 | 38.70 | 38.80 | 38.90 | 39.00 | 39.10 | 39.20 | 39.30 | 39.40 | 39.50 | 39.60 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | 0.00 | 0.01 | 0.03 | 0.07 | 0.12 | 0.17 | 0.23 | 0.29 |
| 1 | 0.36 | 0.43 | 0.50 | 0.58 | 0.66 | 0.74 | 0.82 | 0.91 | 0.99 | 1.08 |
| 2 | 1.16 | 1.25 | 1.34 | 1.43 | 1.52 | 1.61 | 1.70 | 1.79 | 1.89 | 1.98 |
| 3 | 2.07 | 2.16 | 2.26 | 2.35 | 2.45 | 2.54 | 2.64 | 2.73 | 2.83 | 2.92 |
| 4 | 3.02 | 3.11 | 3.21 | 3.31 | 3.40 | 3.50 | 3.59 | 3.69 | 3.79 | 3.89 |
| 5 | 3.98 | 4.08 | 4.18 | 4.27 | 4.37 | 4.47 | 4.57 | 4.66 | 4.76 | 4.86 |
| 6 | 4.96 | 5.06 | 5.15 | 5.25 | 5.35 | 5.45 | 5.55 | 5.64 | 5.74 | 5.84 |
| 7 | 5.94 | 6.04 | 6.14 | 6.23 | 6.33 | 6.43 | 6.53 | 6.63 | 6.73 | 6.83 |
| 8 | 6.92 | 7.02 | 7.12 | 7.22 | 7.32 | 7.42 | 7.52 | 7.62 | 7.72 | 7.81 |
| 9 | 7.91 | 8.01 | 8.11 | 8.21 | 8.31 | 8.41 | 8.51 | 8.61 | 8.71 | 8.80 |
| 10 | 8.90 | 9.00 | 9.10 | 9.20 | 9.30 | 9.40 | 9.50 | 9.60 | 9.70 | 9.80 |
| 11 | 9.90 | 10.00 | 10.09 | 10.19 | 10.29 | 10.39 | 10.49 | 10.59 | 10.69 | 10.79 |
| 12 | 10.89 | 10.99 | 11.09 | 11.19 | 11.29 | 11.39 | 11.49 | 11.59 | 11.69 | 11.78 |
| 13 | 11.88 | 11.98 | 12.08 | 12.18 | 12.28 | 12.38 | 12.48 | 12.58 | 12.68 | 12.78 |
| 14 | 12.88 | 12.98 | 13.08 | 13.18 | 13.28 | 13.38 | 13.48 | 13.58 | 13.68 | 13.78 |
| 15 | 13.88 | 13.97 | 14.07 | 14.17 | 14.27 | 14.37 | 14.47 | 14.57 | 14.67 | 14.77 |
| 16 | 14.87 | 14.97 | 15.07 | 15.17 | 15.27 | 15.37 | 15.47 | 15.57 | 15.67 | 15.77 |
| 17 | 15.87 | 15.97 | 16.07 | 16.17 | 16.27 | 16.37 | 16.47 | 16.57 | 16.67 | 16.77 |
| 18 | 16.87 | 16.96 | 17.06 | 17.16 | 17.26 | 17.36 | 17.46 | 17.56 | 17.66 | 17.76 |
| 19 | 17.86 | 17.96 | 18.06 | 18.16 | 18.26 | 18.36 | 18.46 | 18.56 | 18.66 | 18.76 |
| 20 | 18.86 | 18.96 | 19.06 | 19.16 | 19.26 | 19.36 | 19.46 | 19.56 | 19.66 | 19.76 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.86 | 19.96 | 20.06 | 20.16 | 20.26 | 20.36 | 20.46 | 20.56 | 20.66 | 20.76 |
| 22 | 20.86 | 20.96 | 21.06 | 21.16 | 21.26 | 21.36 | 21.45 | 21.55 | 21.65 | 21.75 |
| 23 | 21.85 | 21.95 | 22.05 | 22.15 | 22.25 | 22.35 | 22.45 | 22.55 | 22.65 | 22.75 |
| 24 | 22.85 | 22.95 | 23.05 | 23.15 | 23.25 | 23.35 | 23.45 | 23.55 | 23.65 | 23.75 |
| 25 | 23.85 | 23.95 | 24.05 | 24.15 | 24.25 | 24.35 | 24.45 | 24.55 | 24.65 | 24.75 |
| 26 | 24.85 | 24.95 | 25.05 | 25.15 | 25.25 | 25.35 | 25.45 | 25.55 | 25.65 | 25.75 |
| 27 | 25.85 | 25.95 | 26.05 | 26.15 | 26.25 | 26.35 | 26.45 | 26.55 | 26.65 | 26.75 |
| 28 | 26.85 | 26.95 | 27.05 | 27.15 | 27.25 | 27.35 | 27.45 | 27.55 | 27.65 | 27.75 |
| 29 | 27.85 | 27.95 | 28.05 | 28.15 | 28.25 | 28.35 | 28.45 | 28.55 | 28.65 | 28.75 |
| 30 | 28.84 | 28.94 | 29.04 | 29.14 | 29.24 | 29.34 | 29.44 | 29.54 | 29.64 | 29.74 |
| 31 | 29.84 | 29.94 | 30.04 | 30.14 | 30.24 | 30.34 | 30.44 | 30.54 | 30.64 | 30.74 |
| 32 | 30.84 | 30.94 | 31.04 | 31.14 | 31.24 | 31.34 | 31.44 | 31.54 | 31.64 | 31.74 |
| 33 | 31.84 | 31.94 | 32.04 | 32.14 | 32.24 | 32.34 | 32.44 | 32.54 | 32.64 | 32.74 |
| 34 | 32.84 | 32.94 | 33.04 | 33.14 | 33.24 | 33.34 | 33.44 | 33.54 | 33.64 | 33.74 |
| 35 | 33.84 | 33.94 | 34.04 | 34.14 | 34.24 | 34.34 | 34.44 | 34.54 | 34.64 | 34.74 |
| 36 | 34.84 | 34.94 | 35.04 | 35.14 | 35.24 | 35.34 | 35.44 | 35.54 | 35.64 | 35.74 |
| 37 | 35.84 | 35.94 | 36.04 | 36.14 | 36.24 | 36.34 | 36.44 | 36.54 | 36.64 | 36.74 |
| 38 | 36.84 | 36.94 | 37.04 | 37.14 | 37.24 | 37.34 | 37.44 | 37.54 | 37.64 | 37.74 |
| 39 | 37.84 | 37.94 | 38.04 | 38.14 | 38.24 | 38.34 | 38.44 | 38.54 | 38.64 | 38.74 |
| 40 | 38.84 | 38.94 | 39.04 | 39.14 | 39.24 | 39.34 | 39.44 | 39.54 | 39.64 | 39.74 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | 0.00 | 0.02 | 0.05 | 0.09 | 0.14 | 0.20 | 0.26 | 0.33 |
| 1 | 0.40 | 0.48 | 0.56 | 0.64 | 0.72 | 0.80 | 0.89 | 0.97 | 1.06 | 1.15 |
| 2 | 1.24 | 1.33 | 1.42 | 1.51 | 1.60 | 1.69 | 1.79 | 1.88 | 1.97 | 2.07 |
| 3 | 2.16 | 2.26 | 2.35 | 2.45 | 2.54 | 2.64 | 2.73 | 2.83 | 2.92 | 3.02 |
| 4 | 3.12 | 3.21 | 3.31 | 3.41 | 3.50 | 3.60 | 3.70 | 3.80 | 3.89 | 3.99 |
| 5 | 4.09 | 4.19 | 4.28 | 4.38 | 4.48 | 4.58 | 4.68 | 4.77 | 4.87 | 4.97 |
| 6 | 5.07 | 5.17 | 5.27 | 5.36 | 5.46 | 5.56 | 5.66 | 5.76 | 5.86 | 5.96 |
| 7 | 6.05 | 6.15 | 6.25 | 6.35 | 6.45 | 6.55 | 6.65 | 6.75 | 6.85 | 6.94 |
| 8 | 7.04 | 7.14 | 7.24 | 7.34 | 7.44 | 7.54 | 7.64 | 7.74 | 7.84 | 7.93 |
| 9 | 8.03 | 8.13 | 8.23 | 8.33 | 8.43 | 8.53 | 8.63 | 8.73 | 8.83 | 8.93 |
| 10 | 9.03 | 9.13 | 9.23 | 9.32 | 9.42 | 9.52 | 9.62 | 9.72 | 9.82 | 9.92 |
| 11 | 10.02 | 10.12 | 10.22 | 10.32 | 10.42 | 10.52 | 10.62 | 10.72 | 10.82 | 10.92 |
| 12 | 11.02 | 11.12 | 11.21 | 11.31 | 11.41 | 11.51 | 11.61 | 11.71 | 11.81 | 11.91 |
| 13 | 12.01 | 12.11 | 12.21 | 12.31 | 12.41 | 12.51 | 12.61 | 12.71 | 12.81 | 12.91 |
| 14 | 13.01 | 13.11 | 13.21 | 13.31 | 13.41 | 13.51 | 13.61 | 13.71 | 13.80 | 13.90 |
| 15 | 14.00 | 14.10 | 14.20 | 14.30 | 14.40 | 14.50 | 14.60 | 14.70 | 14.80 | 14.90 |
| 16 | 15.00 | 15.10 | 15.20 | 15.30 | 15.40 | 15.50 | 15.60 | 15.70 | 15.80 | 15.90 |
| 17 | 16.00 | 16.10 | 16.20 | 16.30 | 16.40 | 16.50 | 16.60 | 16.70 | 16.80 | 16.90 |
| 18 | 17.00 | 17.10 | 17.20 | 17.30 | 17.40 | 17.50 | 17.60 | 17.70 | 17.79 | 17.89 |
| 19 | 17.99 | 18.09 | 18.19 | 18.29 | 18.39 | 18.49 | 18.59 | 18.69 | 18.79 | 18.89 |
| 20 | 18.99 | 19.09 | 19.19 | 19.29 | 19.39 | 19.49 | 19.59 | 19.69 | 19.79 | 19.89 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 19.99 | 20.09 | 20.19 | 20.29 | 20.39 | 20.49 | 20.59 | 20.69 | 20.79 | 20.89 |
| 22 | 20.99 | 21.09 | 21.19 | 21.29 | 21.39 | 21.49 | 21.59 | 21.69 | 21.79 | 21.89 |
| 23 | 21.99 | 22.09 | 22.19 | 22.29 | 22.39 | 22.49 | 22.59 | 22.69 | 22.79 | 22.89 |
| 24 | 22.99 | 23.09 | 23.19 | 23.29 | 23.39 | 23.49 | 23.59 | 23.69 | 23.79 | 23.89 |
| 25 | 23.99 | 24.09 | 24.19 | 24.29 | 24.38 | 24.48 | 24.58 | 24.68 | 24.78 | 24.88 |
| 26 | 24.98 | 25.08 | 25.18 | 25.28 | 25.38 | 25.48 | 25.58 | 25.68 | 25.78 | 25.88 |
| 27 | 25.98 | 26.08 | 26.18 | 26.28 | 26.38 | 26.48 | 26.58 | 26.68 | 26.78 | 26.88 |
| 28 | 26.98 | 27.08 | 27.18 | 27.28 | 27.38 | 27.48 | 27.58 | 27.68 | 27.78 | 27.88 |
| 29 | 27.98 | 28.08 | 28.18 | 28.28 | 28.38 | 28.48 | 28.58 | 28.68 | 28.78 | 28.88 |
| 30 | 28.98 | 29.08 | 29.18 | 29.28 | 29.38 | 29.48 | 29.58 | 29.68 | 29.78 | 29.88 |
| 31 | 29.98 | 30.08 | 30.18 | 30.28 | 30.38 | 30.48 | 30.58 | 30.68 | 30.78 | 30.88 |
| 32 | 30.98 | 31.08 | 31.18 | 31.28 | 31.38 | 31.48 | 31.58 | 31.68 | 31.78 | 31.88 |
| 33 | 31.98 | 32.08 | 32.18 | 32.28 | 32.38 | 32.48 | 32.58 | 32.68 | 32.78 | 32.88 |
| 34 | 32.98 | 33.08 | 33.18 | 33.28 | 33.38 | 33.48 | 33.58 | 33.68 | 33.78 | 33.88 |
| 35 | 33.98 | 34.08 | 34.18 | 34.28 | 34.38 | 34.48 | 34.58 | 34.68 | 34.78 | 34.88 |
| 36 | 34.98 | 35.08 | 35.18 | 35.28 | 35.38 | 35.48 | 35.58 | 35.68 | 35.78 | 35.88 |
| 37 | 35.98 | 36.08 | 36.18 | 36.28 | 36.38 | 36.48 | 36.58 | 36.68 | 36.78 | 36.88 |
| 38 | 36.98 | 37.08 | 37.18 | 37.28 | 37.38 | 37.48 | 37.58 | 37.68 | 37.78 | 37.88 |
| 39 | 37.98 | 38.07 | 38.17 | 38.27 | 38.37 | 38.47 | 38.57 | 38.67 | 38.77 | 38.87 |
| 40 | 38.97 | 39.07 | 39.17 | 39.27 | 39.37 | 39.47 | 39.57 | 39.67 | 39.77 | 39.87 |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | 0.00 | 0.02 | 0.06 | 0.11 | 0.17 | 0.23 | 0.30 | 0.37 |
| 1 | 0.45 | 0.53 | 0.61 | 0.69 | 0.78 | 0.87 | 0.95 | 1.04 | 1.13 | 1.22 |
| 2 | 1.31 | 1.41 | 1.50 | 1.59 | 1.69 | 1.78 | 1.87 | 1.97 | 2.06 | 2.16 |
| 3 | 2.25 | 2.35 | 2.45 | 2.54 | 2.64 | 2.73 | 2.83 | 2.93 | 3.03 | 3.12 |
| 4 | 3.22 | 3.32 | 3.41 | 3.51 | 3.61 | 3.71 | 3.81 | 3.90 | 4.00 | 4.10 |
| 5 | 4.20 | 4.30 | 4.39 | 4.49 | 4.59 | 4.69 | 4.79 | 4.89 | 4.98 | 5.08 |
| 6 | 5.18 | 5.28 | 5.38 | 5.48 | 5.58 | 5.68 | 5.78 | 5.87 | 5.97 | 6.07 |
| 7 | 6.17 | 6.27 | 6.37 | 6.47 | 6.57 | 6.67 | 6.77 | 6.86 | 6.96 | 7.06 |
| 8 | 7.16 | 7.26 | 7.36 | 7.46 | 7.56 | 7.66 | 7.76 | 7.86 | 7.96 | 8.06 |
| 9 | 8.16 | 8.25 | 8.35 | 8.45 | 8.55 | 8.65 | 8.75 | 8.85 | 8.95 | 9.05 |
| 10 | 9.15 | 9.25 | 9.35 | 9.45 | 9.55 | 9.65 | 9.75 | 9.85 | 9.95 | 10.05 |
| 11 | 10.15 | 10.24 | 10.34 | 10.44 | 10.54 | 10.64 | 10.74 | 10.84 | 10.94 | 11.04 |
| 12 | 11.14 | 11.24 | 11.34 | 11.44 | 11.54 | 11.64 | 11.74 | 11.84 | 11.94 | 12.04 |
| 13 | 12.14 | 12.24 | 12.34 | 12.44 | 12.54 | 12.64 | 12.74 | 12.84 | 12.94 | 13.04 |
| 14 | 13.14 | 13.23 | 13.33 | 13.43 | 13.53 | 13.63 | 13.73 | 13.83 | 13.93 | 14.03 |
| 15 | 14.13 | 14.23 | 14.33 | 14.43 | 14.53 | 14.63 | 14.73 | 14.83 | 14.93 | 15.03 |
| 16 | 15.13 | 15.23 | 15.33 | 15.43 | 15.53 | 15.63 | 15.73 | 15.83 | 15.93 | 16.03 |
| 17 | 16.13 | 16.23 | 16.33 | 16.43 | 16.53 | 16.63 | 16.73 | 16.83 | 16.93 | 17.03 |
| 18 | 17.13 | 17.23 | 17.33 | 17.43 | 17.53 | 17.63 | 17.73 | 17.83 | 17.93 | 18.03 |
| 19 | 18.13 | 18.23 | 18.33 | 18.42 | 18.52 | 18.62 | 18.72 | 18.82 | 18.92 | 19.02 |
| 20 | 19.12 | 19.22 | 19.32 | 19.42 | 19.52 | 19.62 | 19.72 | 19.82 | 19.92 | 20.02 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 20.12 | 20.22 | 20.32 | 20.42 | 20.52 | 20.62 | 20.72 | 20.82 | 20.92 | 21.02 |
| 22 | 21.12 | 21.22 | 21.32 | 21.42 | 21.52 | 21.62 | 21.72 | 21.82 | 21.92 | 22.02 |
| 23 | 22.12 | 22.22 | 22.32 | 22.42 | 22.52 | 22.62 | 22.72 | 22.82 | 22.92 | 23.02 |
| 24 | 23.12 | 23.22 | 23.32 | 23.42 | 23.52 | 23.62 | 23.72 | 23.82 | 23.92 | 24.02 |
| 25 | 24.12 | 24.22 | 24.32 | 24.42 | 24.52 | 24.62 | 24.72 | 24.82 | 24.92 | 25.02 |
| 26 | 25.12 | 25.22 | 25.32 | 25.42 | 25.52 | 25.62 | 25.72 | 25.82 | 25.92 | 26.02 |
| 27 | 26.12 | 26.22 | 26.32 | 26.42 | 26.52 | 26.62 | 26.72 | 26.82 | 26.92 | 27.02 |
| 28 | 27.12 | 27.22 | 27.32 | 27.42 | 27.52 | 27.62 | 27.72 | 27.82 | 27.92 | 28.02 |
| 29 | 28.12 | 28.22 | 28.32 | 28.42 | 28.52 | 28.62 | 28.72 | 28.82 | 28.92 | 29.01 |
| 30 | 29.11 | 29.21 | 29.31 | 29.41 | 29.51 | 29.61 | 29.71 | 29.81 | 29.91 | 30.01 |
| 31 | 30.11 | 30.21 | 30.31 | 30.41 | 30.51 | 30.61 | 30.71 | 30.81 | 30.91 | 31.01 |
| 32 | 31.11 | 31.21 | 31.31 | 31.41 | 31.51 | 31.61 | 31.71 | 31.81 | 31.91 | 32.01 |
| 33 | 32.11 | 32.21 | 32.31 | 32.41 | 32.51 | 32.61 | 32.71 | 32.81 | 32.91 | 33.01 |
| 34 | 33.11 | 33.21 | 33.31 | 33.41 | 33.51 | 33.61 | 33.71 | 33.81 | 33.91 | 34.01 |
| 35 | 34.11 | 34.21 | 34.31 | 34.41 | 34.51 | 34.61 | 34.71 | 34.81 | 34.91 | 35.01 |
| 36 | 35.11 | 35.21 | 35.31 | 35.41 | 35.51 | 35.61 | 35.71 | 35.81 | 35.91 | 36.01 |
| 37 | 36.11 | 36.21 | 36.31 | 36.41 | 36.51 | 36.61 | 36.71 | 36.81 | 36.91 | 37.01 |
| 38 | 37.11 | 37.21 | 37.31 | 37.41 | 37.51 | 37.61 | 37.71 | 37.81 | 37.91 | 38.01 |
| 39 | 38.11 | 38.21 | 38.31 | 38.41 | 38.51 | 38.61 | 38.71 | 38.81 | 38.91 | 39.01 |
| 40 | 39.11 | 39.21 | 39.31 | 39.41 | 39.51 | 39.61 | 39.71 | 39.81 | 39.91 | 40.01 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | 0.01 | 0.04 | 0.08 | 0.14 | 0.20 | 0.27 | 0.35 | 0.42 |
| 1 | 0.50 | 0.59 | 0.67 | 0.76 | 0.85 | 0.94 | 1.03 | 1.12 | 1.21 | 1.30 |
| 2 | 1.40 | 1.49 | 1.58 | 1.68 | 1.77 | 1.87 | 1.97 | 2.06 | 2.16 | 2.25 |
| 3 | 2.35 | 2.45 | 2.54 | 2.64 | 2.74 | 2.84 | 2.93 | 3.03 | 3.13 | 3.23 |
| 4 | 3.32 | 3.42 | 3.52 | 3.62 | 3.72 | 3.82 | 3.91 | 4.01 | 4.11 | 4.21 |
| 5 | 4.31 | 4.41 | 4.51 | 4.60 | 4.70 | 4.80 | 4.90 | 5.00 | 5.10 | 5.20 |
| 6 | 5.30 | 5.40 | 5.50 | 5.59 | 5.69 | 5.79 | 5.89 | 5.99 | 6.09 | 6.19 |
| 7 | 6.29 | 6.39 | 6.49 | 6.59 | 6.69 | 6.79 | 6.88 | 6.98 | 7.08 | 7.18 |
| 8 | 7.28 | 7.38 | 7.48 | 7.58 | 7.68 | 7.78 | 7.88 | 7.98 | 8.08 | 8.18 |
| 9 | 8.28 | 8.38 | 8.48 | 8.58 | 8.68 | 8.78 | 8.87 | 8.97 | 9.07 | 9.17 |
| 10 | 9.27 | 9.37 | 9.47 | 9.57 | 9.67 | 9.77 | 9.87 | 9.97 | 10.07 | 10.17 |
| 11 | 10.27 | 10.37 | 10.47 | 10.57 | 10.67 | 10.77 | 10.87 | 10.97 | 11.07 | 11.17 |
| 12 | 11.27 | 11.37 | 11.47 | 11.57 | 11.67 | 11.77 | 11.87 | 11.97 | 12.06 | 12.16 |
| 13 | 12.26 | 12.36 | 12.46 | 12.56 | 12.66 | 12.76 | 12.86 | 12.96 | 13.06 | 13.16 |
| 14 | 13.26 | 13.36 | 13.46 | 13.56 | 13.66 | 13.76 | 13.86 | 13.96 | 14.06 | 14.16 |
| 15 | 14.26 | 14.36 | 14.46 | 14.56 | 14.66 | 14.76 | 14.86 | 14.96 | 15.06 | 15.16 |
| 16 | 15.26 | 15.36 | 15.46 | 15.56 | 15.66 | 15.76 | 15.86 | 15.96 | 16.06 | 16.16 |
| 17 | 16.26 | 16.36 | 16.46 | 16.56 | 16.66 | 16.76 | 16.86 | 16.96 | 17.06 | 17.16 |
| 18 | 17.26 | 17.36 | 17.46 | 17.56 | 17.66 | 17.76 | 17.86 | 17.96 | 18.06 | 18.16 |
| 19 | 18.26 | 18.36 | 18.46 | 18.55 | 18.65 | 18.75 | 18.85 | 18.95 | 19.05 | 19.15 |
| 20 | 19.25 | 19.35 | 19.45 | 19.55 | 19.65 | 19.75 | 19.85 | 19.95 | 20.05 | 20.15 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 20.25 | 20.35 | 20.45 | 20.55 | 20.65 | 20.75 | 20.85 | 20.95 | 21.05 | 21.15 |
| 22 | 21.25 | 21.35 | 21.45 | 21.55 | 21.65 | 21.75 | 21.85 | 21.95 | 22.05 | 22.15 |
| 23 | 22.25 | 22.35 | 22.45 | 22.55 | 22.65 | 22.75 | 22.85 | 22.95 | 23.05 | 23.15 |
| 24 | 23.25 | 23.35 | 23.45 | 23.55 | 23.65 | 23.75 | 23.85 | 23.95 | 24.05 | 24.15 |
| 25 | 24.25 | 24.35 | 24.45 | 24.55 | 24.65 | 24.75 | 24.85 | 24.95 | 25.05 | 25.15 |
| 26 | 25.25 | 25.35 | 25.45 | 25.55 | 25.65 | 25.75 | 25.85 | 25.95 | 26.05 | 26.15 |
| 27 | 26.25 | 26.35 | 26.45 | 26.55 | 26.65 | 26.75 | 26.85 | 26.95 | 27.05 | 27.15 |
| 28 | 27.25 | 27.35 | 27.45 | 27.55 | 27.65 | 27.75 | 27.85 | 27.95 | 28.05 | 28.15 |
| 29 | 28.25 | 28.35 | 28.45 | 28.55 | 28.65 | 28.75 | 28.85 | 28.95 | 29.05 | 29.15 |
| 30 | 29.25 | 29.35 | 29.45 | 29.55 | 29.65 | 29.75 | 29.85 | 29.95 | 30.05 | 30.15 |
| 31 | 30.25 | 30.35 | 30.45 | 30.55 | 30.65 | 30.75 | 30.85 | 30.95 | 31.05 | 31.15 |
| 32 | 31.25 | 31.35 | 31.45 | 31.55 | 31.65 | 31.75 | 31.85 | 31.95 | 32.05 | 32.15 |
| 33 | 32.25 | 32.35 | 32.45 | 32.55 | 32.65 | 32.75 | 32.85 | 32.95 | 33.05 | 33.15 |
| 34 | 33.25 | 33.35 | 33.45 | 33.55 | 33.65 | 33.75 | 33.85 | 33.95 | 34.05 | 34.15 |
| 35 | 34.25 | 34.35 | 34.45 | 34.55 | 34.65 | 34.75 | 34.85 | 34.95 | 35.05 | 35.15 |
| 36 | 35.25 | 35.35 | 35.45 | 35.55 | 35.65 | 35.75 | 35.85 | 35.95 | 36.05 | 36.15 |
| 37 | 36.25 | 36.35 | 36.45 | 36.55 | 36.65 | 36.75 | 36.85 | 36.95 | 37.04 | 37.14 |
| 38 | 37.24 | 37.34 | 37.44 | 37.54 | 37.64 | 37.74 | 37.84 | 37.94 | 38.04 | 38.14 |
| 39 | 38.24 | 38.34 | 38.44 | 38.54 | 38.64 | 38.74 | 38.84 | 38.94 | 39.04 | 39.14 |
| 40 | 39.24 | 39.34 | 39.44 | 39.54 | 39.64 | 39.74 | 39.84 | 39.94 | 40.04 | 40.14 |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | | 0.01 | 0.05 | 0.11 | 0.17 | 0.24 | 0.32 | 0.40 | 0.48 |
| 1 | 0.56 | 0.65 | 0.74 | 0.83 | 0.92 | 1.01 | 1.11 | 1.20 | 1.29 | 1.39 |
| 2 | 1.48 | 1.58 | 1.67 | 1.77 | 1.87 | 1.96 | 2.06 | 2.16 | 2.25 | 2.35 |
| 3 | 2.45 | 2.55 | 2.65 | 2.74 | 2.84 | 2.94 | 3.04 | 3.14 | 3.23 | 3.33 |
| 4 | 3.43 | 3.53 | 3.63 | 3.73 | 3.83 | 3.93 | 4.02 | 4.12 | 4.22 | 4.32 |
| 5 | 4.42 | 4.52 | 4.62 | 4.72 | 4.82 | 4.92 | 5.01 | 5.11 | 5.21 | 5.31 |
| 6 | 5.41 | 5.51 | 5.61 | 5.71 | 5.81 | 5.91 | 6.01 | 6.11 | 6.21 | 6.31 |
| 7 | 6.41 | 6.51 | 6.61 | 6.70 | 6.80 | 6.90 | 7.00 | 7.10 | 7.20 | 7.30 |
| 8 | 7.40 | 7.50 | 7.60 | 7.70 | 7.80 | 7.90 | 8.00 | 8.10 | 8.20 | 8.30 |
| 9 | 8.40 | 8.50 | 8.60 | 8.70 | 8.80 | 8.90 | 9.00 | 9.10 | 9.20 | 9.30 |
| 10 | 9.40 | 9.50 | 9.59 | 9.69 | 9.79 | 9.89 | 9.99 | 10.09 | 10.19 | 10.29 |
| 11 | 10.39 | 10.49 | 10.59 | 10.69 | 10.79 | 10.89 | 10.99 | 11.09 | 11.19 | 11.29 |
| 12 | 11.39 | 11.49 | 11.59 | 11.69 | 11.79 | 11.89 | 11.99 | 12.09 | 12.19 | 12.29 |
| 13 | 12.39 | 12.49 | 12.59 | 12.69 | 12.79 | 12.89 | 12.99 | 13.09 | 13.19 | 13.29 |
| 14 | 13.39 | 13.49 | 13.59 | 13.69 | 13.79 | 13.89 | 13.99 | 14.09 | 14.19 | 14.29 |
| 15 | 14.39 | 14.49 | 14.59 | 14.69 | 14.79 | 14.89 | 14.99 | 15.09 | 15.19 | 15.29 |
| 16 | 15.39 | 15.49 | 15.59 | 15.69 | 15.79 | 15.89 | 15.99 | 16.08 | 16.18 | 16.28 |
| 17 | 16.38 | 16.48 | 16.58 | 16.68 | 16.78 | 16.88 | 16.98 | 17.08 | 17.18 | 17.28 |
| 18 | 17.38 | 17.48 | 17.58 | 17.68 | 17.78 | 17.88 | 17.98 | 18.08 | 18.18 | 18.28 |
| 19 | 18.38 | 18.48 | 18.58 | 18.68 | 18.78 | 18.88 | 18.98 | 19.08 | 19.18 | 19.28 |
| 20 | 19.38 | 19.48 | 19.58 | 19.68 | 19.78 | 19.88 | 19.98 | 20.08 | 20.18 | 20.28 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 20.38 | 20.48 | 20.58 | 20.68 | 20.78 | 20.88 | 20.98 | 21.08 | 21.18 | 21.28 |
| 22 | 21.38 | 21.48 | 21.58 | 21.68 | 21.78 | 21.88 | 21.98 | 22.08 | 22.18 | 22.28 |
| 23 | 22.38 | 22.48 | 22.58 | 22.68 | 22.78 | 22.88 | 22.98 | 23.08 | 23.18 | 23.28 |
| 24 | 23.38 | 23.48 | 23.58 | 23.68 | 23.78 | 23.88 | 23.98 | 24.08 | 24.18 | 24.28 |
| 25 | 24.38 | 24.48 | 24.58 | 24.68 | 24.78 | 24.88 | 24.98 | 25.08 | 25.18 | 25.28 |
| 26 | 25.38 | 25.48 | 25.58 | 25.68 | 25.78 | 25.88 | 25.98 | 26.08 | 26.18 | 26.28 |
| 27 | 26.38 | 26.48 | 26.58 | 26.68 | 26.78 | 26.88 | 26.98 | 27.08 | 27.18 | 27.28 |
| 28 | 27.38 | 27.48 | 27.58 | 27.68 | 27.78 | 27.88 | 27.98 | 28.08 | 28.18 | 28.28 |
| 29 | 28.38 | 28.48 | 28.58 | 28.68 | 28.78 | 28.88 | 28.98 | 29.08 | 29.18 | 29.28 |
| 30 | 29.38 | 29.48 | 29.58 | 29.68 | 29.78 | 29.88 | 29.98 | 30.08 | 30.18 | 30.28 |
| 31 | 30.38 | 30.48 | 30.58 | 30.68 | 30.78 | 30.88 | 30.98 | 31.08 | 31.18 | 31.28 |
| 32 | 31.38 | 31.48 | 31.58 | 31.68 | 31.78 | 31.88 | 31.98 | 32.08 | 32.18 | 32.28 |
| 33 | 32.38 | 32.48 | 32.58 | 32.68 | 32.78 | 32.88 | 32.98 | 33.08 | 33.18 | 33.28 |
| 34 | 33.38 | 33.48 | 33.58 | 33.68 | 33.78 | 33.88 | 33.98 | 34.08 | 34.18 | 34.28 |
| 35 | 34.38 | 34.48 | 34.58 | 34.68 | 34.78 | 34.88 | 34.98 | 35.08 | 35.18 | 35.28 |
| 36 | 35.38 | 35.48 | 35.58 | 35.68 | 35.78 | 35.88 | 35.98 | 36.08 | 36.18 | 36.28 |
| 37 | 36.38 | 36.48 | 36.58 | 36.68 | 36.78 | 36.88 | 36.98 | 37.08 | 37.18 | 37.28 |
| 38 | 37.38 | 37.48 | 37.58 | 37.68 | 37.78 | 37.88 | 37.98 | 38.08 | 38.18 | 38.28 |
| 39 | 38.38 | 38.48 | 38.58 | 38.68 | 38.78 | 38.88 | 38.98 | 39.08 | 39.18 | 39.28 |
| 40 | 39.38 | 39.48 | 39.58 | 39.68 | 39.78 | 39.88 | 39.98 | 40.08 | 40.18 | 40.28 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.00 | 0.03 | 0.07 | 0.14 | 0.21 | 0.29 | 0.37 | 0.45 | 0.54 | |
| 1 | 0.63 | 0.72 | 0.81 | 0.91 | 1.00 | 1.09 | 1.19 | 1.29 | 1.38 | 1.48 |
| 2 | 1.57 | 1.67 | 1.77 | 1.87 | 1.96 | 2.06 | 2.16 | 2.26 | 2.36 | 2.45 |
| 3 | 2.55 | 2.65 | 2.75 | 2.85 | 2.95 | 3.04 | 3.14 | 3.24 | 3.34 | 3.44 |
| 4 | 3.54 | 3.64 | 3.74 | 3.84 | 3.94 | 4.04 | 4.13 | 4.23 | 4.33 | 4.43 |
| 5 | 4.53 | 4.63 | 4.73 | 4.83 | 4.93 | 5.03 | 5.13 | 5.23 | 5.33 | 5.43 |
| 6 | 5.53 | 5.63 | 5.73 | 5.83 | 5.93 | 6.03 | 6.12 | 6.22 | 6.32 | 6.42 |
| 7 | 6.52 | 6.62 | 6.72 | 6.82 | 6.92 | 7.02 | 7.12 | 7.22 | 7.32 | 7.42 |
| 8 | 7.52 | 7.62 | 7.72 | 7.82 | 7.92 | 8.02 | 8.12 | 8.22 | 8.32 | 8.42 |
| 9 | 8.52 | 8.62 | 8.72 | 8.82 | 8.92 | 9.02 | 9.12 | 9.22 | 9.32 | 9.42 |
| 10 | 9.52 | 9.62 | 9.72 | 9.82 | 9.92 | 10.02 | 10.12 | 10.22 | 10.32 | 10.42 |
| 11 | 10.51 | 10.61 | 10.71 | 10.81 | 10.91 | 11.01 | 11.11 | 11.21 | 11.31 | 11.41 |
| 12 | 11.51 | 11.61 | 11.71 | 11.81 | 11.91 | 12.01 | 12.11 | 12.21 | 12.31 | 12.41 |
| 13 | 12.51 | 12.61 | 12.71 | 12.81 | 12.91 | 13.01 | 13.11 | 13.21 | 13.31 | 13.41 |
| 14 | 13.51 | 13.61 | 13.71 | 13.81 | 13.91 | 14.01 | 14.11 | 14.21 | 14.31 | 14.41 |
| 15 | 14.51 | 14.61 | 14.71 | 14.81 | 14.91 | 15.01 | 15.11 | 15.21 | 15.31 | 15.41 |
| 16 | 15.51 | 15.61 | 15.71 | 15.81 | 15.91 | 16.01 | 16.11 | 16.21 | 16.31 | 16.41 |
| 17 | 16.51 | 16.61 | 16.71 | 16.81 | 16.91 | 17.01 | 17.11 | 17.21 | 17.31 | 17.41 |
| 18 | 17.51 | 17.61 | 17.71 | 17.81 | 17.91 | 18.01 | 18.11 | 18.21 | 18.31 | 18.41 |
| 19 | 18.51 | 18.61 | 18.71 | 18.81 | 18.91 | 19.01 | 19.11 | 19.21 | 19.31 | 19.41 |
| 20 | 19.51 | 19.61 | 19.71 | 19.81 | 19.91 | 20.01 | 20.11 | 20.21 | 20.31 | 20.41 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 20.51 | 20.61 | 20.71 | 20.81 | 20.91 | 21.01 | 21.11 | 21.21 | 21.31 | 21.41 |
| 22 | 21.51 | 21.61 | 21.71 | 21.81 | 21.91 | 22.01 | 22.11 | 22.21 | 22.31 | 22.41 |
| 23 | 22.51 | 22.61 | 22.71 | 22.81 | 22.91 | 23.01 | 23.11 | 23.21 | 23.31 | 23.41 |
| 24 | 23.51 | 23.61 | 23.71 | 23.81 | 23.91 | 24.01 | 24.11 | 24.21 | 24.31 | 24.41 |
| 25 | 24.51 | 24.61 | 24.71 | 24.81 | 24.91 | 25.01 | 25.11 | 25.21 | 25.31 | 25.41 |
| 26 | 25.51 | 25.61 | 25.71 | 25.81 | 25.91 | 26.01 | 26.11 | 26.21 | 26.31 | 26.41 |
| 27 | 26.51 | 26.61 | 26.71 | 26.81 | 26.91 | 27.01 | 27.11 | 27.21 | 27.31 | 27.41 |
| 28 | 27.51 | 27.61 | 27.71 | 27.81 | 27.91 | 28.01 | 28.11 | 28.21 | 28.31 | 28.41 |
| 29 | 28.51 | 28.61 | 28.71 | 28.81 | 28.91 | 29.01 | 29.11 | 29.21 | 29.31 | 29.41 |
| 30 | 29.51 | 29.61 | 29.71 | 29.81 | 29.91 | 30.01 | 30.11 | 30.21 | 30.31 | 30.41 |
| 31 | 30.51 | 30.61 | 30.71 | 30.81 | 30.91 | 31.01 | 31.11 | 31.21 | 31.30 | 31.40 |
| 32 | 31.50 | 31.60 | 31.70 | 31.80 | 31.90 | 32.00 | 32.10 | 32.20 | 32.30 | 32.40 |
| 33 | 32.50 | 32.60 | 32.70 | 32.80 | 32.90 | 33.00 | 33.10 | 33.20 | 33.30 | 33.40 |
| 34 | 33.50 | 33.60 | 33.70 | 33.80 | 33.90 | 34.00 | 34.10 | 34.20 | 34.30 | 34.40 |
| 35 | 34.50 | 34.60 | 34.70 | 34.80 | 34.90 | 35.00 | 35.10 | 35.20 | 35.30 | 35.40 |
| 36 | 35.50 | 35.60 | 35.70 | 35.80 | 35.90 | 36.00 | 36.10 | 36.20 | 36.30 | 36.40 |
| 37 | 36.50 | 36.60 | 36.70 | 36.80 | 36.90 | 37.00 | 37.10 | 37.20 | 37.30 | 37.40 |
| 38 | 37.50 | 37.60 | 37.70 | 37.80 | 37.90 | 38.00 | 38.10 | 38.20 | 38.30 | 38.40 |
| 39 | 38.50 | 38.60 | 38.70 | 38.80 | 38.90 | 39.00 | 39.10 | 39.20 | 39.30 | 39.40 |
| 40 | 39.50 | 39.60 | 39.70 | 39.80 | 39.90 | 40.00 | 40.10 | 40.20 | 40.30 | 40.40 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | | 0.00 | 0.04 | 0.10 | 0.18 | 0.26 | 0.34 | 0.43 | 0.52 | 0.61 |
| 1 | 0.71 | 0.80 | 0.90 | 0.99 | 1.09 | 1.18 | 1.28 | 1.38 | 1.48 | 1.57 |
| 2 | 1.67 | 1.77 | 1.87 | 1.97 | 2.07 | 2.16 | 2.26 | 2.36 | 2.46 | 2.56 |
| 3 | 2.66 | 2.76 | 2.86 | 2.96 | 3.06 | 3.15 | 3.25 | 3.35 | 3.45 | 3.55 |
| 4 | 3.65 | 3.75 | 3.85 | 3.95 | 4.05 | 4.15 | 4.25 | 4.35 | 4.45 | 4.55 |
| 5 | 4.65 | 4.75 | 4.85 | 4.95 | 5.05 | 5.15 | 5.25 | 5.35 | 5.44 | 5.54 |
| 6 | 5.64 | 5.74 | 5.84 | 5.94 | 6.04 | 6.14 | 6.24 | 6.34 | 6.44 | 6.54 |
| 7 | 6.64 | 6.74 | 6.84 | 6.94 | 7.04 | 7.14 | 7.24 | 7.34 | 7.44 | 7.54 |
| 8 | 7.64 | 7.74 | 7.84 | 7.94 | 8.04 | 8.14 | 8.24 | 8.34 | 8.44 | 8.54 |
| 9 | 8.64 | 8.74 | 8.84 | 8.94 | 9.04 | 9.14 | 9.24 | 9.34 | 9.44 | 9.54 |
| 10 | 9.64 | 9.74 | 9.84 | 9.94 | 10.04 | 10.14 | 10.24 | 10.34 | 10.44 | 10.54 |
| 11 | 10.64 | 10.74 | 10.84 | 10.94 | 11.04 | 11.14 | 11.24 | 11.34 | 11.44 | 11.54 |
| 12 | 11.64 | 11.74 | 11.84 | 11.94 | 12.04 | 12.14 | 12.24 | 12.34 | 12.44 | 12.54 |
| 13 | 12.64 | 12.74 | 12.84 | 12.94 | 13.04 | 13.14 | 13.24 | 13.34 | 13.44 | 13.54 |
| 14 | 13.64 | 13.74 | 13.84 | 13.94 | 14.04 | 14.14 | 14.24 | 14.34 | 14.44 | 14.54 |
| 15 | 14.64 | 14.74 | 14.84 | 14.94 | 15.04 | 15.14 | 15.24 | 15.34 | 15.44 | 15.54 |
| 16 | 15.64 | 15.74 | 15.83 | 15.93 | 16.03 | 16.13 | 16.23 | 16.33 | 16.43 | 16.53 |
| 17 | 16.63 | 16.73 | 16.83 | 16.93 | 17.03 | 17.13 | 17.23 | 17.33 | 17.43 | 17.53 |
| 18 | 17.63 | 17.73 | 17.83 | 17.93 | 18.03 | 18.13 | 18.23 | 18.33 | 18.43 | 18.53 |
| 19 | 18.63 | 18.73 | 18.83 | 18.93 | 19.03 | 19.13 | 19.23 | 19.33 | 19.43 | 19.53 |
| 20 | 19.63 | 19.73 | 19.83 | 19.93 | 20.03 | 20.13 | 20.23 | 20.33 | 20.43 | 20.53 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 20.63 | 20.73 | 20.83 | 20.93 | 21.03 | 21.13 | 21.23 | 21.33 | 21.43 | 21.53 |
| 22 | 21.63 | 21.73 | 21.83 | 21.93 | 22.03 | 22.13 | 22.23 | 22.33 | 22.43 | 22.53 |
| 23 | 22.63 | 22.73 | 22.83 | 22.93 | 23.03 | 23.13 | 23.23 | 23.33 | 23.43 | 23.53 |
| 24 | 23.63 | 23.73 | 23.83 | 23.93 | 24.03 | 24.13 | 24.23 | 24.33 | 24.43 | 24.53 |
| 25 | 24.63 | 24.73 | 24.83 | 24.93 | 25.03 | 25.13 | 25.23 | 25.33 | 25.43 | 25.53 |
| 26 | 25.63 | 25.73 | 25.83 | 25.93 | 26.03 | 26.13 | 26.23 | 26.33 | 26.43 | 26.53 |
| 27 | 26.63 | 26.73 | 26.83 | 26.93 | 27.03 | 27.13 | 27.23 | 27.33 | 27.43 | 27.53 |
| 28 | 27.63 | 27.73 | 27.83 | 27.93 | 28.03 | 28.13 | 28.23 | 28.33 | 28.43 | 28.53 |
| 29 | 28.63 | 28.73 | 28.83 | 28.93 | 29.03 | 29.13 | 29.23 | 29.33 | 29.43 | 29.53 |
| 30 | 29.63 | 29.73 | 29.83 | 29.93 | 30.03 | 30.13 | 30.23 | 30.33 | 30.43 | 30.53 |
| 31 | 30.63 | 30.73 | 30.83 | 30.93 | 31.03 | 31.13 | 31.23 | 31.33 | 31.43 | 31.53 |
| 32 | 31.63 | 31.73 | 31.83 | 31.93 | 32.03 | 32.13 | 32.23 | 32.33 | 32.43 | 32.53 |
| 33 | 32.63 | 32.73 | 32.83 | 32.93 | 33.03 | 33.13 | 33.23 | 33.33 | 33.43 | 33.53 |
| 34 | 33.63 | 33.73 | 33.83 | 33.93 | 34.03 | 34.13 | 34.23 | 34.33 | 34.43 | 34.53 |
| 35 | 34.63 | 34.73 | 34.83 | 34.93 | 35.03 | 35.13 | 35.23 | 35.33 | 35.43 | 35.53 |
| 36 | 35.63 | 35.73 | 35.83 | 35.93 | 36.03 | 36.13 | 36.23 | 36.33 | 36.43 | 36.53 |
| 37 | 36.63 | 36.73 | 36.83 | 36.93 | 37.03 | 37.13 | 37.23 | 37.33 | 37.43 | 37.53 |
| 38 | 37.63 | 37.73 | 37.83 | 37.93 | 38.03 | 38.13 | 38.23 | 38.33 | 38.43 | 38.53 |
| 39 | 38.63 | 38.73 | 38.83 | 38.93 | 39.03 | 39.13 | 39.23 | 39.33 | 39.43 | 39.53 |
| 40 | 39.63 | 39.73 | 39.83 | 39.93 | 40.03 | 40.13 | 40.23 | 40.33 | 40.43 | 40.53 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P - 0.2S)^2}{P + 0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches \ | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 0.01 | 0.07 | 0.15 | 0.23 | 0.32 | 0.41 | 0.50 | 0.60 | 0.69 | |
| 1 | 0.79 | 0.89 | 0.99 | 1.08 | 1.18 | 1.28 | 1.38 | 1.48 | 1.58 | 1.68 |
| 2 | 1.77 | 1.87 | 1.97 | 2.07 | 2.17 | 2.27 | 2.37 | 2.47 | 2.57 | 2.67 |
| 3 | 2.77 | 2.87 | 2.97 | 3.07 | 3.17 | 3.27 | 3.37 | 3.47 | 3.57 | 3.67 |
| 4 | 3.77 | 3.86 | 3.96 | 4.06 | 4.16 | 4.26 | 4.36 | 4.46 | 4.56 | 4.66 |
| 5 | 4.76 | 4.86 | 4.96 | 5.06 | 5.16 | 5.26 | 5.36 | 5.46 | 5.56 | 5.66 |
| 6 | 5.76 | 5.86 | 5.96 | 6.06 | 6.16 | 6.26 | 6.36 | 6.46 | 6.56 | 6.66 |
| 7 | 6.76 | 6.86 | 6.96 | 7.06 | 7.16 | 7.26 | 7.36 | 7.46 | 7.56 | 7.66 |
| 8 | 7.76 | 7.86 | 7.96 | 8.06 | 8.16 | 8.26 | 8.36 | 8.46 | 8.56 | 8.66 |
| 9 | 8.76 | 8.86 | 8.96 | 9.06 | 9.16 | 9.26 | 9.36 | 9.46 | 9.56 | 9.66 |
| 10 | 9.76 | 9.86 | 9.96 | 10.06 | 10.16 | 10.26 | 10.36 | 10.46 | 10.56 | 10.66 |
| 11 | 10.76 | 10.86 | 10.96 | 11.06 | 11.16 | 11.26 | 11.36 | 11.46 | 11.56 | 11.66 |
| 12 | 11.76 | 11.86 | 11.96 | 12.06 | 12.16 | 12.26 | 12.36 | 12.46 | 12.56 | 12.66 |
| 13 | 12.76 | 12.86 | 12.96 | 13.06 | 13.16 | 13.26 | 13.36 | 13.46 | 13.56 | 13.66 |
| 14 | 13.76 | 13.86 | 13.96 | 14.06 | 14.16 | 14.26 | 14.36 | 14.46 | 14.56 | 14.66 |
| 15 | 14.76 | 14.86 | 14.96 | 15.06 | 15.16 | 15.26 | 15.36 | 15.46 | 15.56 | 15.66 |
| 16 | 15.76 | 15.86 | 15.96 | 16.06 | 16.16 | 16.26 | 16.36 | 16.46 | 16.56 | 16.66 |
| 17 | 16.76 | 16.86 | 16.96 | 17.06 | 17.16 | 17.26 | 17.36 | 17.46 | 17.56 | 17.66 |
| 18 | 17.76 | 17.86 | 17.96 | 18.06 | 18.16 | 18.26 | 18.36 | 18.46 | 18.56 | 18.66 |
| 19 | 18.76 | 18.86 | 18.96 | 19.06 | 19.16 | 19.26 | 19.36 | 19.46 | 19.56 | 19.66 |
| 20 | 19.76 | 19.86 | 19.96 | 20.06 | 20.16 | 20.26 | 20.36 | 20.46 | 20.56 | 20.66 |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY

RUNOFF FOR INCHES OF RAINFALL

| Tenths Inches | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21 | 20.76 | 20.86 | 20.96 | 21.06 | 21.16 | 21.26 | 21.36 | 21.46 | 21.56 | 21.66 |
| 22 | 21.76 | 21.86 | 21.96 | 22.06 | 22.16 | 22.26 | 22.36 | 22.46 | 22.56 | 22.66 |
| 23 | 22.76 | 22.86 | 22.96 | 23.06 | 23.16 | 23.26 | 23.36 | 23.46 | 23.56 | 23.66 |
| 24 | 23.76 | 23.86 | 23.96 | 24.06 | 24.16 | 24.26 | 24.36 | 24.46 | 24.56 | 24.66 |
| 25 | 24.76 | 24.86 | 24.96 | 25.06 | 25.16 | 25.26 | 25.36 | 25.46 | 25.56 | 25.66 |
| 26 | 25.76 | 25.86 | 25.96 | 26.06 | 26.16 | 26.26 | 26.36 | 26.46 | 26.56 | 26.66 |
| 27 | 26.76 | 26.86 | 26.96 | 27.06 | 27.16 | 27.26 | 27.36 | 27.46 | 27.56 | 27.66 |
| 28 | 27.76 | 27.86 | 27.96 | 28.06 | 28.16 | 28.26 | 28.36 | 28.46 | 28.56 | 28.66 |
| 29 | 28.76 | 28.86 | 28.96 | 29.06 | 29.16 | 29.26 | 29.36 | 29.46 | 29.56 | 29.66 |
| 30 | 29.76 | 29.86 | 29.96 | 30.06 | 30.16 | 30.26 | 30.36 | 30.46 | 30.56 | 30.66 |
| 31 | 30.76 | 30.86 | 30.96 | 31.06 | 31.16 | 31.26 | 31.36 | 31.46 | 31.56 | 31.66 |
| 32 | 31.76 | 31.86 | 31.96 | 32.06 | 32.16 | 32.26 | 32.36 | 32.46 | 32.56 | 32.66 |
| 33 | 32.76 | 32.86 | 32.96 | 33.06 | 33.16 | 33.26 | 33.36 | 33.46 | 33.56 | 33.66 |
| 34 | 33.76 | 33.86 | 33.96 | 34.06 | 34.16 | 34.26 | 34.36 | 34.46 | 34.56 | 34.66 |
| 35 | 34.76 | 34.86 | 34.96 | 35.06 | 35.16 | 35.26 | 35.36 | 35.46 | 35.56 | 35.66 |
| 36 | 35.76 | 35.86 | 35.96 | 36.06 | 36.16 | 36.26 | 36.36 | 36.46 | 36.56 | 36.66 |
| 37 | 36.76 | 36.86 | 36.96 | 37.06 | 37.16 | 37.26 | 37.36 | 37.46 | 37.56 | 37.66 |
| 38 | 37.76 | 37.86 | 37.96 | 38.06 | 38.16 | 38.26 | 38.36 | 38.46 | 38.56 | 38.66 |
| 39 | 38.76 | 38.86 | 38.96 | 39.06 | 39.16 | 39.26 | 39.36 | 39.46 | 39.56 | 39.66 |
| 40 | 39.76 | 39.86 | 39.96 | 40.06 | 40.16 | 40.26 | 40.36 | 40.46 | 40.56 | 40.66 |
| | | | | | | | | | | |

NOTE: Runoff value determined by equation $Q = \frac{(P-0.2S)^2}{P+0.8S}$

REFERENCE: National Engineering Handbook, Section 4, HYDROLOGY